



Low Voltage Induction Motors

Reliability & Efficiency IEC / KS / NEMA Type



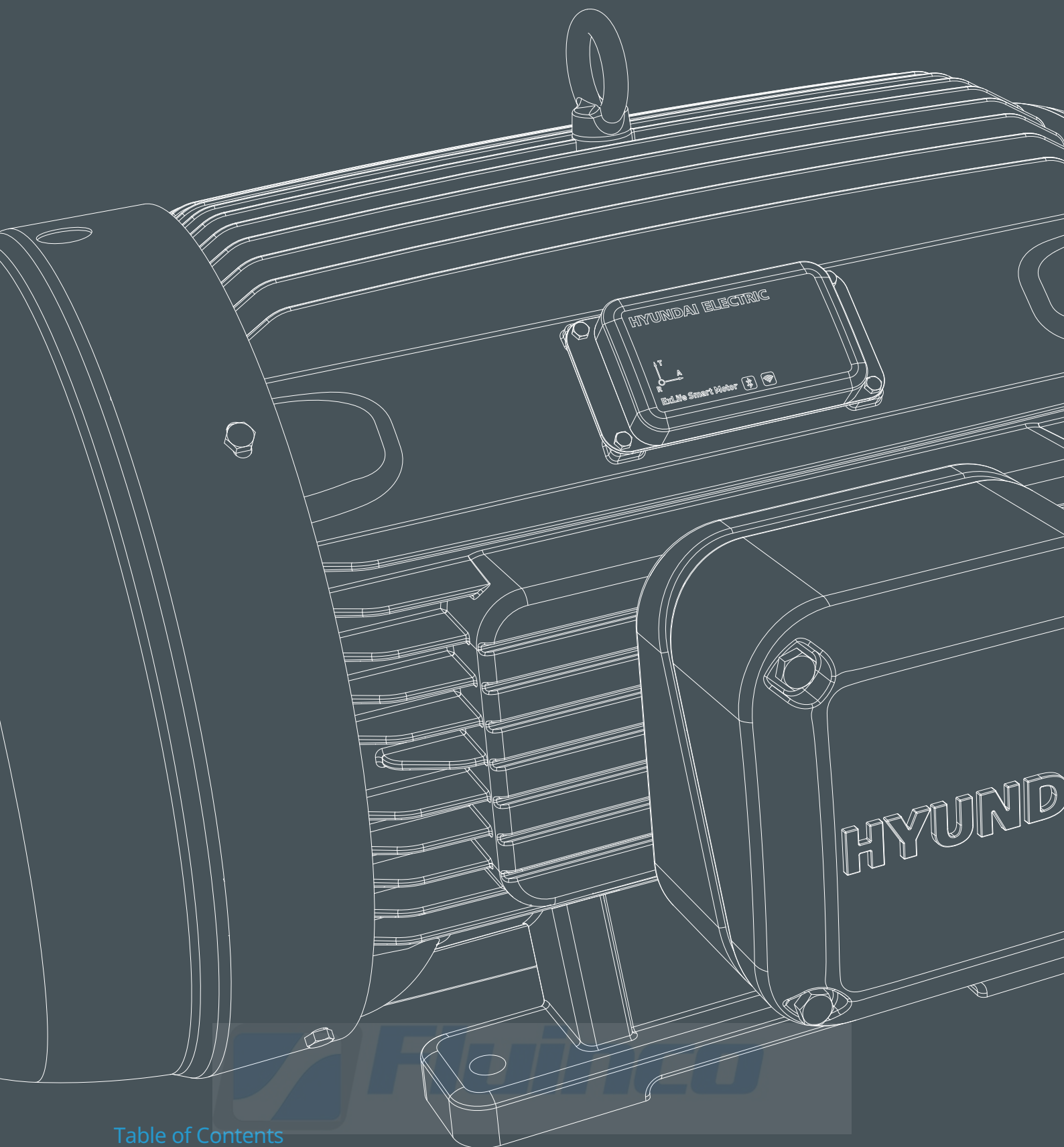
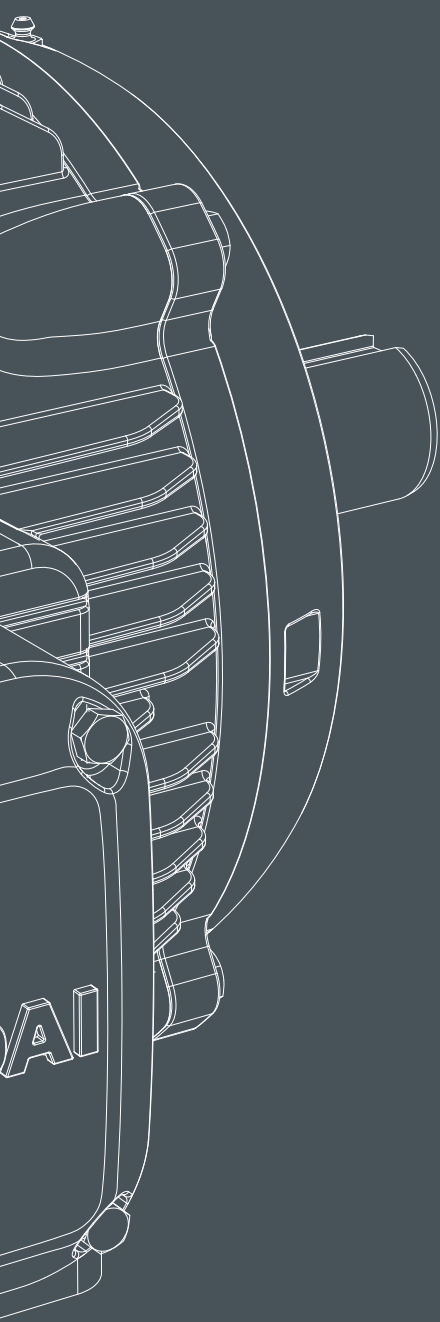


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HYUNDAI ELECTRIC

Essential for Today Potential for Tomorrow

As one of the affiliates of the Hyundai Heavy Industries Group, Hyundai Electric is a company established through the spin-off of the Electric and Electronic Business Division of Hyundai Heavy Industry in April 2017.

Electrical Equipment business was launched in 1977 at the Heavy Electric System Business Division of Hyundai Heavy Industry; it has been the leader in general electric & electronic systems and energy solutions in Korea for the past 40 years.

Our talented minds have used their creativity and drive as a weapon to turn the impossible into the possible and pioneer a new technological paradigm. In addition, our talented minds have used their creativity and drive as a weapon to turn the impossible into the possible and pioneer a new technological paradigm.

Thanks to the 'Hyundai Spirit', comprising of the unique experience, know-how, and sheer determination of our talented minds, it is with great hope and joy that we launch Hyundai Electric. Hyundai Electric is committed to growing our customers' businesses and to growing with them.

To this end, we will provide the highest quality products, solutions, and services to increase our customers' productivity and efficiency. Valued customers follow us as Hyundai Electric becomes the nation's leading energy solutions provider.

HYUNDAI ELECTRIC

Low Voltage Induction Motors

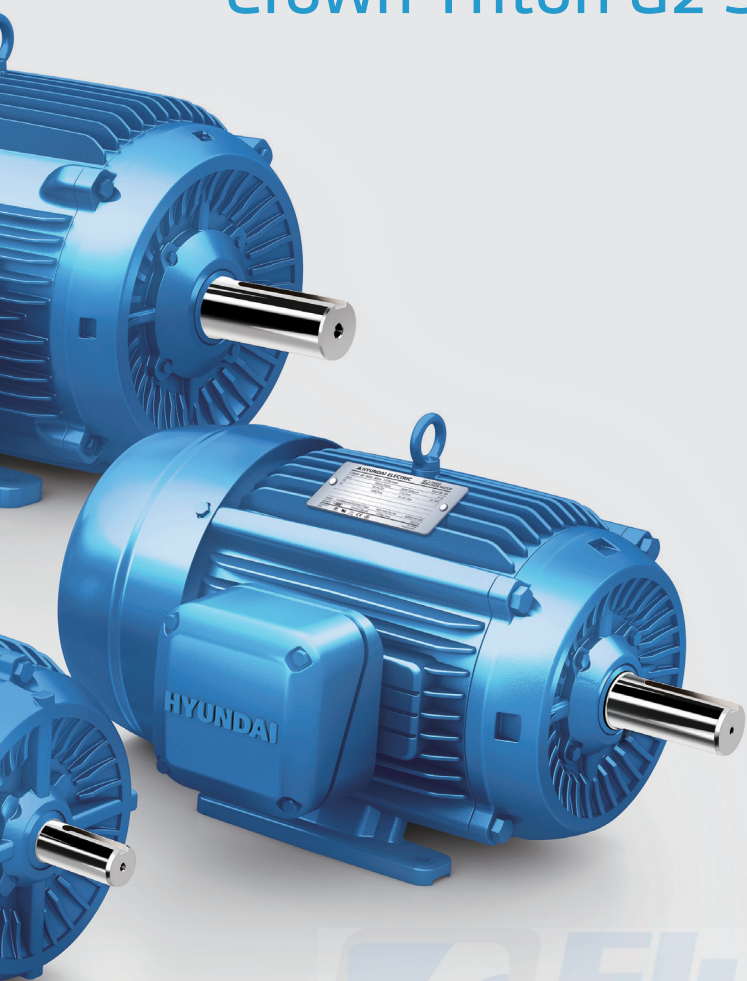
Next Generation Performance Redefined

Continuous design evolutions for Electric Motor developed through years of experience, innovation and reliability in building top quality

Our state-of-the-art manufacturing facilities guarantee that all products meet customers' requirements with regard to cost, delivery and quality

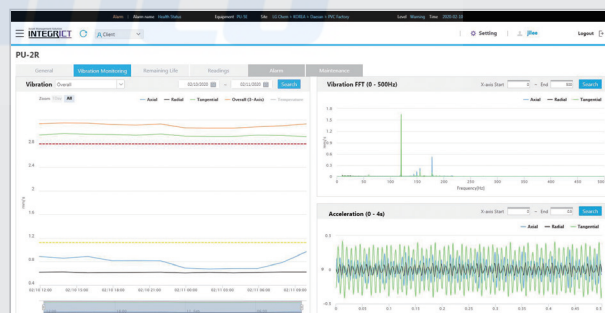
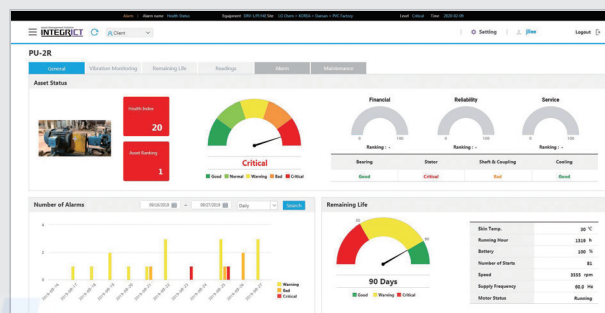


SSEN Series for IEC & KS Standard Crown Triton G2 Series for NEMA Standard



Overview

- Motor maintenance optimization through SMART MOTOR
- Fitting sensor easily to the motor and getting operation data
- Remote monitoring and diagnosis on motor health status
- Automatic alarm for a service
- Increasing uptime, improving performance, and optimizing serviceability through data analysis via cloud connection to INTEGRICT.



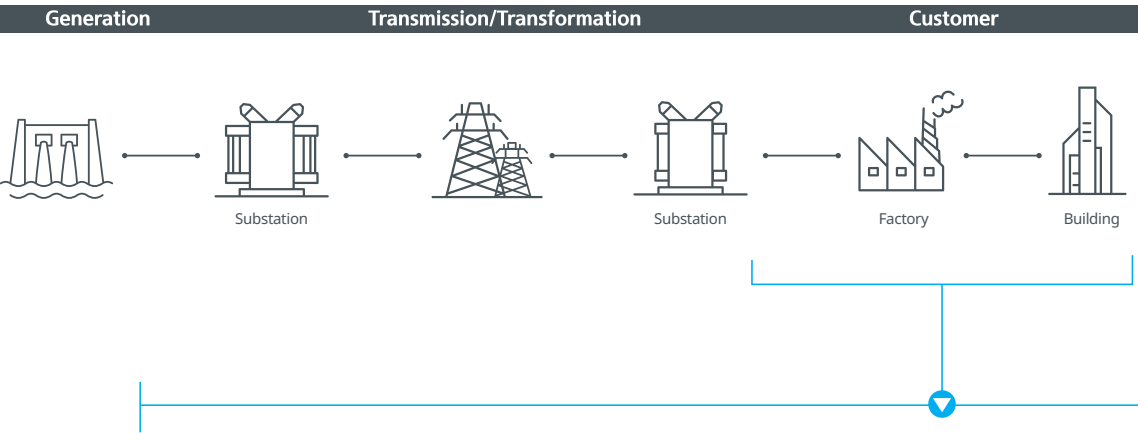
Features

ELECTRIC MOTOR

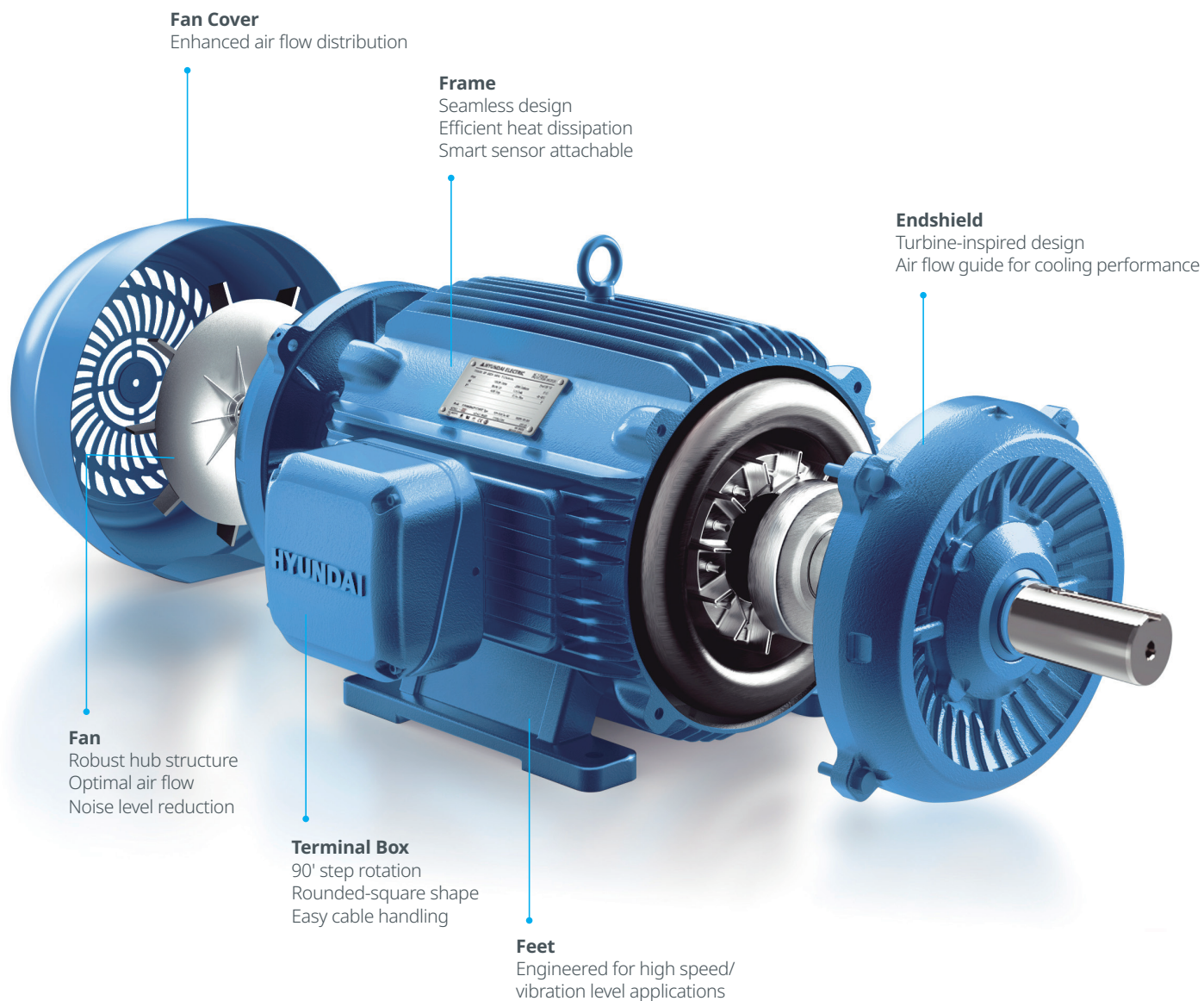
The electric motor is an electric system that converts electric energy into mechanical energy by making use of electromagnetic energy to supply rotational force.

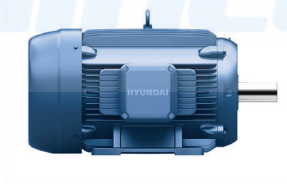
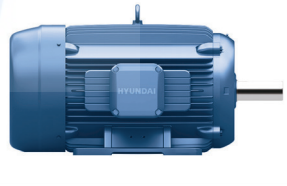
Electric motors drive pumps, fans, and compressors at every industrial facility with electric power supplied through transformer and distribution systems.

Structural stability is the prominent requirements when considering product characteristics and modification of the apparent shape is limited due to specified dimensions, distance and thickness.



	71Fr	80Fr	90Fr	100Fr	112Fr
Product					
Size (mm) L/H	240/216	275/234	320/193	370/247	384/270
Output (kW)	0.4	0.75	0.75~1.5	2.2	2.2~3.7
IP code	IP55				
Voltage	Up to 600V				



132Fr	160Fr	180Fr	200Fr
			
459~496/311	607~651/376	672~710/415	769~850/468
5.5~7.5	11~15	18.5~22	30~45

Frame Size	71M	80M	90L	100L	112S	112M	132S	132M	160M	160L	180M	180L	200L	200LL
	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

Mechanical features

Nameplate		Markings	CE									
		Material	Stainless Steel AISI 304									
Frame	Material		Aluminum		Cast iron							
Endshields	Material		Aluminum		Cast iron							
Enclosure			TEFC									
Cooling method(IC)			IC411									
Degree of protection(IP rating)			IP55									
Altitude			Less than 1000 meters									
Ambient Temperature			Service factor 1.15 at 40°C ambient and 1.0 at 65°C ambient									
Fan	Material/Rotation	2P	Polypropylene/Bi-directional									
		4P≤	Polypropylene/Bi-directional									
Fan cover	Material		Steel									
Drain plug			Automatic Plastic(Both sides of frame bottom)									
Grounding	Inside the terminal box		M6-6mmSQ			M6-10mmSQ				M8-16mmSQ		
	Outside on the frame		None(Option "M6")							None(Option "M8")		
Bearings	Drive end Shieleded/clearance	2P	6203 ZZC3	6204 ZZC3	6205 ZZC3	6206 ZZC3	6208 ZZC3	6309 ZZC3	6312 ZZC3	6212 ZC3		
		4P≤								6313 ZC3		
	Non-drive end Shieleded/clearance	2P	6202 ZZC3	6203 ZZC3	6204 ZZC3	6206 ZZC3	6208 ZZC3	6309 ZZC3	6310 ZZC3	6212 ZC3		
		4P≤										
Bearing seal			V-seal									
Axial locking configuration			No bearing cap, Preloading wave washer on NDE									
Lubrication	Type of grease		Permanently lubricated shielded bearing								Regreasable bearing	
	Grease fitting		None								Greasing nipples PT1/8"	
Terminal box	Material		Aluminum die casting									
	Leads(Lug Mount'g)		With Lug									
	Terminal block		6xM4			6xM5				6xM6		6xM8
	Mounting		Top		F1(Left) Viewed from drive end							
	Leads inlet	Size	Φ22/28		PF 3/4"			PF 1"	PF 1 1/4"	PF 1 1/2"	PF 2"	
	Plug		Plastic									
Shaft	Material		ISO 683-1 : C45, DIN : C45									
	DE threaded hole		M6		M8			M10	M16			
	NDE threaded hole		None									
	DE Keyway		Opened keyway									
Vibration velocity limit			2.8mm/s(R.M.S.)									
Painting	Type		Polyurethane									
	Color		Pantone 279C									

Electrical features(AC 3 phase squirrel cage induction motor)

Efficiency		IE3 IEC60034-30-1 2014												
IEC Design		N												
Voltage		380, 400, 415V												
Frequency		50Hz												
Duty		S1 (220/380, 380V, 400, 415V Inverter ready for 3:1 CT and 10:1 VT[NEMA MG1 Part30])												
Winding	Material	Copper(Enamel coated wire)												
	Impregnation	Dip and Bake-Polyester												
	Insulation class/Temp. rise	F/B												
Service factor		1.15												
Rotor		Aluminum die casting												

Frame Size	225S	250SM	280SM	280L	280LL	280KJH	315SML	315JH	315GF	315GF	355J	400J
	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

Mechanical features

Nameplate	Markings		CE										
	Material		Stainless Steel AISI 304										
Frame	Material		Cast iron										
Endshields	Material		Cast iron										
Enclosure			TEFC										
Cooling method(IC)			IC411										
Degree of protection(IP rating)			IP55										
Altitude			Less than 1000 meters										
Fan	Material/Rotation	2P	Polypropylene/Bi-directional					Polypropylene/Uni-directional					
		4P≤	Polypropylene/Bi-directional										
Fan cover	Material		Steel										
Drain plug			Automatic Plastic(Both sides of frame bottom)										
Grounding	Inside the terminal box		M10 - 35mmSQ										
	Outside on the frame		1xM10					2xM10					
Bearings	Drive end Shieleded/clearance	2P	6213C3	6313C3	6314C3		6315C3		6315C3		6316C3	6317C3	
		4P≤	6314C3	6316C3	6318C3		6322C3		6324C3		6324C3	6326C3	
	Non-drive end Shieleded/clearance	2P	6213C3	6313C3	6314C3		6315C3		6315C3		6316C3	6317C3	
		4P≤			6316C3		6318C3		6320C3		6322C3	6324C3	
	Bearing seal		V-seal										
Axial locking configuration			Axially locked by bearing cap on DE, Preloading wave washer on NDE										
Lubrication	Type of grease		Regreasable bearing										
	Grease fitting		Greasing nipples PT1/8"										
Terminal box	Material		Cast iron										
	Leads(Lug Mount'g)		With Lug										
	Terminal block		6xM8	6xM12									
	Mounting		F1(Left) Viewed from drive end										
	Leads inlet	Size	PF 2"	PF 2 1/2"				PF 3"			PF 4"		
	Plug		Plastic										
Shaft	Material		ISO 683-1 : C45, DIN : C45										
	DE threaded hole		M16							M20			
	NDE threaded hole		None										
	DE Keyway		Opened keyway										
Vibration velocity limit			2.8mm/s(R.M.S.)										
Painting	Type		Polyurethane										
	Color		Pantone 279C										

Electrical features(AC 3 phase squirrel cage induction motor)

Efficiency		IE3 IEC60034-30-1 2014	
NEMA/IEC Design		N	
Voltage		380, 400, 415V	
Frequency		50Hz	
Duty		S1 (380, 400V, 415V Inverter ready for 3:1 CT and 10:1 VT[NEMA MG1 Part30])	S1
Winding	Material	Copper(Heavy enamel coated wire)	
	Impregnation	Dip and Bake-Polyester	
	Insulation class/Temp. rise	F/B	
Service factor		1.15(225~280LL), 1.0(280KJH~400J)	
Rotor		Aluminum die casting	

TEFC, SSEN Series - IEC60034-30-1 IE3(Premium) Efficiency Motors

IP55, 3-phase, 50Hz, 220/380V, 380V, 400V and 415V, 1.15S.F., S1 Duty
Class F, Temperature rise B, 40°C ambient

kW	HP	Pole	Frame Number	rpm r/min	Volts (V)	Catalog Number & Order Code	Type	Efficiency IEC60034-30-1			Power factor Cosφ	Current		Torque			Sound pressure Level LpA dB(A)	Moment of Inertia Rotor J= $\frac{1}{2}GD^2$ (kgm ²)	Approx Weight (kg)
								Full Load 100%	3/4 Load 75%	1/2 Load 50%		Rated (A)	Locked Rotor (%)	Rated (kgm)	Locked Rotor %FLT	Break down %FLT			
0.18	0.24	6	71M	890	380 400 415	PP18TA375 PP18TA395 PP18TA3A5	HLP-018/6	63.90	63.90	61.70	0.600	0.71 0.68 0.65	450	0.20	200	200	65	0.0009	8
0.25	0.34	4	71M	1420	380 400 415	PP25TA275 PP25TA295 PP25TA2A5	HLP-0.25/4	73.50	73.50	71.30	0.675	0.77 0.73 0.70	580	0.17	300	230	54	0.0012	8
0.25	0.34	6	80M	935	380 400 415	PP25TA375 PP25TA395 PP25TA3A5	HLP-0.25/6	68.60	68.60	66.40	0.660	0.84 0.80 0.77	450	0.26	230	200	65	0.0028	12
0.37	0.5	2	71M	2745	380 400 415	PP37TA175 PP37TA195 PP37TA1A5	HLP-0.37/2	73.80	73.80	71.60	0.820	0.93 0.88 0.85	800	0.13	350	210	67	0.0009	8
0.37	0.5	4	71M	1420	380 400 415	PP37TA275 PP37TA295 PP37TA2A5	HLP-0.37/4	77.30	77.30	75.10	0.680	1.07 1.02 0.98	580	0.25	300	230	54	0.0012	8
0.37	0.5	6	80M	935	380 400 415	PP37TA375 PP37TA395 PP37TA3A5	HLP-0.37/6	73.50	73.50	70.50	0.660	1.16 1.10 1.06	450	0.39	230	200	65	0.0028	12
0.55	0.75	2	71M	2745	380 400 415	PP55TA175 PP55TA195 PP55TA1A5	HLP-0.55/2	77.80	77.80	75.60	0.820	1.31 1.24 1.20	800	0.20	350	210	67	0.0009	8
0.55	0.75	4	80M	1435	380 400 415	PP55TA275 PP55TA295 PP55TA2A5	HLP-0.55/4	80.80	80.80	78.60	0.750	1.38 1.31 1.26	730	0.37	300	240	54	0.0020	12
0.55	0.75	6	80M	935	380 400 415	PP55TA375 PP55TA395 PP55TA3A5	HLP-0.55/6	77.20	77.20	74.20	0.660	1.64 1.56 1.50	450	0.57	230	200	65	0.0030	12
0.75	1	2	80M	2880	380 400 415	PP75TA175 PP75TA195 PP75TA1A5	HLP-0.75/2	80.70	80.50	79.40	0.815	1.73 1.65 1.59	750	0.25	340	230	67	0.0010	12
0.75	1	4	80M	1435	380 400 415	PP75TA275 PP75TA295 PP75TA2A5	HLP-0.75/4	82.50	82.44	81.14	0.775	1.78 1.69 1.63	730	0.51	300	240	54	0.0020	12
0.75	1	6	90L	940	380 400 415	PP75TC375 PP75TC395 PP75TC3A5	HLP-0.75/6	78.90	78.70	77.20	0.690	2.09 1.99 1.92	480	0.78	190	200	52	0.0035	25
1.1	1.5	2	80M	2880	380 400 415	P1P1TA175 P1P1TA195 P1P1TA1A5	HLP-1.1/2	82.70	82.50	81.40	0.835	2.42 2.30 2.22	710	0.25	350 180	230 200	67	0.0008	12
1.1	1.5	4	90L	1440	380 400 415	P1P1TC275 P1P1TC295 P1P1TC2A5	HLP-1.1/4	84.10	83.90	82.60	0.755	2.63 2.50 2.41	720	1.01	260	220	54	0.0033	25
1.1	1.5	6	90L	940	380 400 415	P1P1TC370 P1P1TC390 P1P1TC3A0	HLP-1.1/6	81.00	80.80	79.30	0.690	2.99 2.84 2.74	480	0.78	190	200	65	0.0035	25
1.5	2	2	90L	2880	380 400 415	P1P5TC175 P1P5TC195 P1P5TC1A5	HLP-1.5/2	84.20	84.00	82.90	0.845	3.20 3.04 2.93	880	0.51	340	260	56	0.0018	25
1.5	2	4	90L	1440	380 400 415	P1P5TC275 P1P5TC295 P1P5TC2A5	HLP-1.5/4	85.30	85.10	83.80	0.775	3.45 3.28 3.16	720	1.01	260	220	54	0.0033	25
1.5	2	6	100L	955	380 400 415	P1P5TC375 P1P5TC395 P1P5TC3A5	HLP-1.5/6	82.50	82.30	80.80	0.697	3.96 3.76 3.63	745	1.53	180	200	51	0.0090	41
2.2	3	2	90L	2915	380 400 415	P2P2TC175 P2P2TC195 P2P2TC1A5	HLP-2.2/2	85.90	85.94	84.84	0.845	4.60 4.37 4.22	880	0.74	340	260	56	0.0020	25
2.2	3	4	100L	1460	380 400 415	P2P2TC275 P2P2TC295 P2P2TC2A5	HLP-2.2/4	86.70	86.70	85.40	0.748	5.15 4.90 4.72	800	1.47	200	260	55	0.0080	41
3	4	4	100L	1460	380 400 415	P3P0TC275 P3P0TC295 P3P0TC2A5	HLP-3/4	87.70	87.70	86.40	0.748	6.95 6.60 6.36	800	2.00	200	260	55	0.0080	41
3	4	2	112S	2915	380 400 415	P3P0TC170 P3P0TC190 P3P0TC1A0	HLP-3/2	87.10	86.76	85.66	0.855	6.12 5.81 5.60	870	1.24	175	240	63	0.0070	45
2.2	3	6	112M	975	380 400 415	P2P2TC375 P2P2TC395 P2P2TC3A5	HKP-2.2/6	84.30	84.10	82.60	0.675	5.87 5.58 5.38	720	2.20	180	240	57	0.0300	48

TEFC, SSEN Series - IEC60034-30-1 IE3(Premium) Efficiency Motors

IP55, 3-phase, 50Hz, 220/380V, 380V, 400V and 415V, 1.15S.F., S1 Duty
Class F, Temperature rise B, 40°C ambient

kW	HP	Pole	Frame Number	rpm r/min	Volts (V)	Catalog Number & Order Code	Type	Efficiency IEC60034-30-1			Power factor Cosφ	Current		Torque			Sound pressure Level LpA dB(A)	Moment of Inertia Rotor J=½GD² (kgm²)	Approx Weight (kg)
								Full Load 100%	3/4 Load 75%	1/2 Load 50%		Rated (A)	Locked Rotor (%)	Rated (kgm)	Locked Rotor %FLT	Break down %FLT			
4	5.5	2	112M	2915	380 400 415	P4P0TC175 P4P0TC195 P4P0TC1A5	HKP-4/2	88.10	87.76	86.66	0.855	8.07 7.66 7.39	870	1.34	175	240	63	0.0070	48
4	5.5	4	112M	1460	380 400 415	P3P7TC275 P3P7TC295 P3P7TC2A5	HKP-4/4	88.60	88.60	87.30	0.769	8.92 8.47 8.17	800	2.67	190	240	62	0.0130	48
3	4	6	132S	955	380 400 415	P3P7TC375 P3P7TC395 P3P7TC3A5	HLP-3.7/6	85.60	85.40	83.90	0.690	7.72 7.33 7.07	680	3.06	160	210	53	0.0520	62
4	5.5	6	132S	955	380 400 415	P3P7TC375 P3P7TC395 P3P7TC3A5	HLP-3.7/6	86.80	86.60	85.10	0.690	10.15 9.64 9.29	680	4.08	160	210	61	0.0520	68
5.5	7.5	2	132S	2920	380 400 415	P5P5TC175 P5P5TC195 P5P5TC1A5	HLP-5.5/2	89.20	89.31	88.21	0.855	10.96 10.41 10.03	820	1.83	160	240	66	0.0140	68
5.5	7.5	4	132S	1460	380 400 415	P5P5TC275 P5P5TC295 P5P5TC2A5	HLP-5.5/4	89.60	89.60	88.30	0.780	11.96 11.36 10.95	900	3.67	180	240	52	0.0240	68
5.5	7.5	6	132M	975	380 400 415	P5P5TC375 P5P5TC395 P5P5TC3A5	HLP-5.5/6	88.00	87.80	86.30	0.717	13.24 12.58 12.13	720	5.49	160	240	61	0.0520	78
7.5	10	2	132S	2920	380 400 415	P7P5TC175 P7P5TC195 P7P5TC1A5	HLP-7.5/2	90.10	90.10	89.00	0.865	14.62 13.89 13.39	820	2.50	155	240	66	0.0190	68
7.5	10	4	132M	1460	380 400 415	P7P5TC275 P7P5TC295 P7P5TC2A5	HLP-7.5/4	90.40	90.40	89.10	0.795	15.86 15.06 14.52	795	5.00	170	230	52	0.0300	78
7.5	10	6	160M	975	380 400 415	P7P5TC375 P7P5TC395 P7P5TC3A5	HLP-7.5/6	89.10	88.98	87.48	0.699	18.30 17.38 16.75	740	7.49	160	240	54	0.130	118
11	15	2	160M	2935	380 400 415	PO11TC175 PO11TC195 PO11TC1A5	HLP-11/2	91.20	91.20	90.10	0.883	20.8 19.7 19.0	950	3.65	160	230	72	0.039	118
11	15	4	160M	1475	380 400 415	PO11TC275 PO11TC295 PO11TC2A5	HLP-11/4	91.40	91.40	90.10	0.777	23.5 22.4 21.5	800	7.26	180	220	62	0.090	118
11	15	6	160L	975	380 400 415	PO11TC375 PO11TC395 PO11TC3A5	HLP-11/6	90.30	90.10	88.60	0.740	25.0 23.8 22.9	710	10.99	150	230	54	0.130	136
15	20	2	160M	2935	380 400 415	PO15TC175 PO15TC195 PO15TC1A5	HLP-15/2	91.90	91.80	90.70	0.883	28.1 26.7 25.7	930	4.98	160	230	72	0.049	136
15	20	4	160L	1475	380 400 415	PO15TC275 PO15TC295 PO15TC2A5	HLP-15/4	92.10	92.10	90.80	0.790	31.3 29.8 28.7	800	9.91	180	220	62	0.111	136
15	20	6	180M	975	380 400 415	PO15TC375 PO15TC395 PO15TC3A5	HLP-15/6	91.20	91.10	89.60	0.755	33.1 31.4 30.3	680	14.98	140	220	66	0.257	172
18.5	25	2	160L	2960	380 400 415	PO19TC175 PO19TC195 PO19TC1A5	HLP-18.5/2	92.40	92.30	91.20	0.883	34.5 32.7 31.5	880	6.09	160	210	72	0.059	136
18.5	25	4	180M	1475	380 400 415	PO19TC275 PO19TC295 PO19TC2A5	HLP-18.5/4	92.60	92.74	91.44	0.796	38.1 36.2 34.9	775	12.22	160	210	64	0.166	172
18.5	25	6	180L	975	380 400 415	PO19TC379 PO19TC399 PO19TC3A9	HLP-18.5/6	91.70	91.70	90.20	0.754	40.6 38.6 37.2	745	18.48	160	210	66	0.257	186
22	30	2	180M	2960	380 400 415	PO22TC175 PO22TC195 PO22TC1A5	HLP-22/2	92.70	92.60	91.50	0.883	40.8 38.8 37.4	910	7.24	160	210	77	0.088	186
22	30	4	180M	1475	380 400 415	PO22TC275 PO22TC295 PO22TC2A5	HLP-22/4	93.00	93.03	91.73	0.781	46.0 43.7 42.1	820	14.53	160	210	64	0.235	172
30	40	2	180L	2960	380 400 415	PO30TC179 PO30TC199 PO30TC1A9	HLP-30/2	93.30	93.10	92.00	0.883	55.3 52.6 50.7	985	9.87	150	200	77	0.088	186
18.5	25	6	200L	983	380 400 415	PO19TC375 PO19TC395 PO19TC3A5	HLP-18.5/6	91.70	91.60	90.10	0.777	39.4 37.5 36.1	720	29.73	150	210	66	0.380	247

TEFC, SSEN Series - IEC60034-30-1 IE3(Premium) Efficiency Motors

IP55, 3-phase, 50Hz, 220/380V, 380V, 400V and 415V, 1.15S.F., S1 Duty
Class F, Temperature rise B, 40°C ambient

kW	HP	Pole	Frame Number	rpm r/min	Volts (V)	Catalog Number & Order Code	Type	Efficiency IEC60034-30-1			Power factor Cosφ	Current		Torque			Sound pressure Level LpA dB(A)	Moment of Inertia Rotor J= $\frac{1}{2}GD^2$ (kgm ²)	Approx Weight (kg)
								Full Load 100%	3/4 Load 75%	1/2 Load 50%		Rated (A)	Locked Rotor (%)	Rated (kgm)	Locked Rotor %FLT	Break down %FLT			
22	30	6	200L	983	380 400 415	PO22TC375 PO22TC395 PO22TC3A5	HLP-22/6	92.20	92.10	90.60	0.777	46.7 44.3 42.7	720	29.73	150	210	66	0.380	250
30	40	2	200L	2960	380 400 415	PO30TC175 PO30TC195 PO30TC1A5	HLP-30/2	93.30	93.30	92.20	0.883	55.3 52.6 50.7	945	12.18	140	210	77	0.202	295
30	40	4	200L	1480	380 400 415	PO30TC275 PO30TC295 PO30TC2A5	HLP-30/4	93.60	93.60	92.50	0.810	60.1 57.1 55.0	760	24.35	150	210	70	0.280	295
37	50	2	200L	2960	380 400 415	PO37TC175 PO37TC195 PO37TC1A5	HLP-37/2	93.70	93.70	92.60	0.883	67.9 64.5 62.2	945	12.18	140	210	77	0.202	320
37	50	4	200L	1480	380 400 415	PO37TC279 PO37TC299 PO37TC2A9	HLP-37/4	93.90	93.93	92.63	0.810	73.9 70.2 67.7	760	24.35	150	210	70	0.280	254
45	60	2	225S	2965	380 400 415	PO45TC179 PO45TC199 PO45TC1A9	HLP-45/2	94.00	94.15	93.05	0.883	82.4 78.3 75.4	940	14.78	140	210	85	5.750	350
45	60	4	200LL	1482	380 400 415	PO45TC275 PO45TC295 PO45TC2A5	HLP-45/4	94.20	94.24	92.94	0.820	88.5 84.1 81.0	750	29.57	150	210	76	0.546	320
30	40	6	225S	985	380 400 415	PO30TC375 PO30TC395 PO30TC3A5	HLP-30/6	92.90	93.00	91.50	0.821	59.8 56.8 54.7	730	29.66	150	250	71	1.555	360
37	50	6	225S	985	380 400 415	PO37TC379 PO37TC399 PO37TC3A9	HLP-37/6	93.30	93.40	91.90	0.821	73.4 69.7 67.2	730	36.59	150	250	71	1.555	360
45	60	2	225S	2965	380 400 415	PO45TC175 PO45TC195 PO45TC1A5	HLP-45/2	94.00	93.80	92.70	0.883	82.4 78.3 75.4	700	18.07	180	250	80	5.750	345
55	75	2	225S	2965	380 400 415	PO55TC179 PO55TC199 PO55TC1A9	HLP-55/2	94.30	94.10	93.00	0.883	100.4 95.3 91.9	700	18.07	180	250	80	5.750	350
37	50	4	225S	1482	380 400 415	PO37TC275 PO37TC295 PO37TC2A5	HLP-37/4	93.90	93.95	92.65	0.841	71.2 67.6 65.2	700	36.15	150	230	80	0.950	340
45	60	4	225S	1482	380 400 415	PO45TC275 PO45TC295 PO45TC2A5	HLP-45/4	94.20	94.25	92.95	0.841	86.3 82.0 79.0	700	36.15	150	230	80	0.950	345
55	75	4	225S	1482	380 400 415	PO55TC279 PO55TC299 PO55TC2A9	HLP-55/4	94.60	94.65	93.35	0.841	105.0 99.8 96.2	700	36.15	150	230	80	0.950	350
37	50	6	250S	985	380 400 415	PO37TC375 PO37TC395 PO37TC3A5	HLP-37/6	93.30	93.30	91.80	0.825	73.0 69.4 66.9	700	54.39	150	230	71	2.378	495
45	60	6	250S	985	380 400 415	PO45TC379 PO45TC399 PO45TC3A9	HLP-45/6	93.70	93.70	92.20	0.825	88.4 84.0 81.0	700	54.39	150	230	71	2.378	500
55	75	6	250S	985	380 400 415	PO55TC375 PO55TC395 PO55TC3A5	HLP-55/6	94.10	94.10	92.60	0.825	107.6 102.3 98.6	700	54.39	150	230	71	2.378	505
55	75	2	250S	2970	380 400 415	PO55TC175 PO55TC195 PO55TC1A5	HLP-55/2	94.30	94.10	93.00	0.871	101.7 96.7 93.2	730	24.60	145	250	85	1.053	495
75	100	2	250S	2970	380 400 415	PO75TC179 PO75TC199 PO75TC1A9	HLP-75/2	94.70	94.50	93.40	0.871	138.1 131.2 126.5	730	24.60	145	250	85	1.053	500
55	75	4	250S	1480	380 400 415	PO55TC275 PO55TC295 PO55TC2A5	HLP-55/4	94.60	94.70	93.40	0.840	105.2 99.9 96.3	680	49.36	150	240	80	1.723	495
75	100	4	250S	1480	380 400 415	PO75TC279 PO75TC299 PO75TC2A9	HLP-75/4	95.00	95.10	93.80	0.840	142.8 135.7 130.8	680	49.36	150	240	80	1.723	500
90	120	2	250M	2970	380 400 415	PO90TC179 PO90TC199 PO90TC1A9	HLP-90/2	95.00	94.80	93.70	0.883	163.0 154.9 149.3	730	29.52	145	250	86	1.143	530
90	120	4	250M	1485	380 400 415	PO90TC275 PO90TC295 PO90TC2A5	HLP-90/4	95.20	95.30	94.00	0.840	171.0 162.4 156.6	680	59.03	150	240	80	1.940	530

TEFC, SSEN Series - IEC60034-30-1 IE3(Premium) Efficiency Motors

IP55, 3-phase, 50Hz, 220/380V, 380V, 400V and 415V, 1.15S.F., S1 Duty
Class F, Temperature rise B, 40°C ambient

kW	HP	Pole	Frame Number	rpm r/min	Volts (V)	Catalog Number & Order Code	Type	Efficiency IEC60034-30-1			Power factor Cosφ	Current		Torque			Sound pressure Level LpA dB(A)	Moment of Inertia Rotor J=½GD² (kgm²)	Approx Weight (kg)
								Full Load 100%	3/4 Load 75%	1/2 Load 50%		Rated (A)	Locked Rotor (%)	Rated (kgm)	Locked Rotor %FLT	Break down %FLT			
45	60	6	280S	985	380 400 415	PO45TC375 PO45TC395 PO45TC3A5	HLP-45/6	93.70	93.50	92.00	0.805	90.6 86.1 83.0	725	88.99	150	230	75	4.030	660
55	75	6	280S	985	380 400 415	PO55TC375 PO55TC395 PO55TC3A5	HLP-55/6	94.10	93.90	92.40	0.805	110.3 104.8 101.0	725	88.99	150	230	75	4.065	670
75	100	6	280S	985	380 400 415	PO75TC379 PO75TC399 PO75TC3A9	HLP-75/6	94.60	94.40	92.90	0.805	149.6 142.2 137.0	725	88.99	150	230	75	4.100	680
75	100	2	280S	2970	380 400 415	PO75TC175 PO75TC195 PO75TC1A5	HLP-75/2	94.70	94.60	93.50	0.875	137.5 130.6 125.9	700	36.07	150	230	88	2.100	710
75	100	4	280S	1485	380 400 415	PO75TC275 PO75TC295 PO75TC2A5	HLP-75/4	95.00	95.04	93.74	0.849	141.3 134.2 129.4	740	72.15	150	230	82	3.023	670
90	120	2	280S	2970	380 400 415	PO90TC175 PO90TC195 PO90TC1A5	HLP-90/2	95.00	94.90	93.80	0.875	164.5 156.3 150.6	700	36.07	150	230	88	2.100	720
90	120	4	280S	1485	380 400 415	PO90TC275 PO90TC295 PO90TC2A5	HLP-90/4	95.20	95.24	93.94	0.849	169.2 160.7 154.9	740	72.15	150	230	82	3.023	680
110	150	2	280S	2970	380 400 415	P110TC179 P110TC199 P110TC1A9	HLP-110/2	95.20	95.10	94.00	0.875	200.6 190.6 183.7	700	36.07	150	230	88	2.100	730
110	150	4	280S	1485	380 400 415	P110TC279 P110TC299 P110TC2A9	HLP-110/4	95.40	95.44	94.14	0.849	206.3 196.0 188.9	740	72.15	150	230	82	3.023	690
110	150	6	280M	985	380 400 415	P110TC375 P110TC395 P110TC3A5	HLP-110/4	95.10	95.00	93.50	0.816	215.4 204.6 197.2	730	108.77	150	230	78	4.943	770
132	175	2	280M	2970	380 400 415	P132TC179 P132TC199 P132TC1A9	HLP-132/2	95.40	95.20	94.10	0.890	236.2 224.4 216.3	700	43.29	150	230	90	2.440	800
132	175	4	280M	1485	380 400 415	P132TC275 P132TC295 P132TC2A5	HLP-132/4	95.60	95.64	94.34	0.865	242.5 230.4 222.1	740	86.58	150	230	83	3.415	740
132	175	2	280L	2970	380 400 415	P132TC175 P132TC195 P132TC1A5	HLP-132/2	95.40	95.20	94.10	0.890	236.2 224.4 216.3	700	43.29	150	230	90	2.450	850
160	214	2	280L	2970	380 400 415	P160TC179 P160TC199 P160TC1A9	HLP-160/2	95.60	95.40	94.30	0.890	285.7 271.4 261.6	700	43.29	150	230	90	2.470	860
110	150	2	315SML	2970	380 400 415	P110TC175 P110TC195 P110TC1A5	HLP-110/2	95.20	95.10	94.00	0.900	195.1 185.3 178.6	720	73.79	100	210	86.0	2.090	1450
132	175	2	315SML	2970	380 400 415	P132TC175 P132TC195 P132TC1A5	HLP-132/2	95.40	95.30	94.20	0.900	233.6 221.9 213.9	720	73.79	100	210	86.0	2.110	1470
160	214	2	315SML	2970	380 400 415	P160TC175 P160TC195 P160TC1A5	HLP-160/2	95.60	95.50	94.40	0.900	282.5 268.4 258.7	720	73.79	100	210	86.0	2.130	1490
200	268	2	315SML	2970	380 400 415	P200TC175 P200TC195 P200TC1A5	HLP-200/2	95.80	95.80	94.70	0.900	352.4 334.8 322.7	720.0	65.59	100	220	86.0	1.840	1310
110	150	4	315SML	1485	380 400 415	P110TC275 P110TC295 P110TC2A5	HLP-110/4	95.40	95.50	94.20	0.875	200.2 190.2 183.3	740.0	147.58	120	220	84.0	4.870	1450
132	175	4	315SML	1485	380 400 415	P132TC275 P132TC295 P132TC2A5	HLP-132/4	95.60	95.70	94.40	0.875	239.8 227.8 219.5	740.0	147.58	120	220	84.0	4.900	1470
160	214	4	315SML	1485	380 400 415	P160TC275 P160TC295 P160TC2A5	HLP-160/4	95.80	95.90	94.60	0.875	290.0 275.5 265.5	740.0	147.58	120	220	84.0	4.990	1490
200	268	4	315SML	1485	380 400 415	P200TC275 P200TC295 P200TC2A5	HLP-200/4	96.00	96.10	94.80	0.875	361.7 343.7 331.2	740.0	131.18	120	220	84.0	4.260	1310
75	100	6	315SML	985	380 400 415	PO75TC375 PO75TC395 PO75TC3A5	HLP-75/6	94.60	94.70	93.20	0.820	146.9 139.6 134.5	720.0	197.77	120	220	79.0	7.750	1320

TEFC, SSEN Series - IEC60034-30-1 IE3(Premium) Efficiency Motors

IP55, 3-phase, 50Hz, 220/380V, 380V, 400V and 415V, 1.15S.F., S1 Duty
Class F, Temperature rise B, 40°C ambient

kW	HP	Pole	Frame Number	rpm r/min	Volts (V)	Catalog Number & Order Code	Type	Efficiency IEC60034-30-1			Power factor Cosφ	Current		Torque			Sound pressure Level LpA dB(A)	Moment of Inertia Rotor J= $\frac{1}{2}GD^2$ (kgm ²)	Approx Weight (kg)
								Full Load 100%	3/4 Load 75%	1/2 Load 50%		Rated (A)	Locked Rotor (%)	Rated (kgm)	Locked Rotor %FLT	Break down %FLT			
90	120	6	315SML	985	380 400 415	PO90TC375 PO90TC395 PO90TC3A5	HLP-90/6	94.90	95.00	93.50	0.820	175.7 166.9 160.9	720.0	197.77	120	220	79.0	7.750	1340
110	150	6	315SML	985	380 400 415	P110TC375 P110TC395 P110TC3A5	HLP-110/6	95.10	95.20	93.70	0.820	214.3 203.6 196.2	720.0	197.77	120	220	79.0	7.750	1360
132	175	6	315SML	985	380 400 415	P132TC375 P132TC395 P132TC3A5	HLP-132/6	95.40	95.50	94.00	0.820	256.4 243.6 234.7	720.0	197.77	120	220	79.0	7.750	1380
160	214	6	315SML	985	380 400 415	P160TC379 P160TC399 P160TC3A9	HLP-160/6	95.60	95.70	94.20	0.820	310.1 294.6 283.9	720.0	197.77	120	220	79.0	7.750	1400
200	268	6	315SML	985	380 400 415	P200TC379 P200TC399 P200TC3A9	HLP-200/6	95.80	95.90	94.40	0.820	386.8 367.5 354.2	720.0	197.77	120	220	79.0	7.750	1400
260	350	2	315J	2970	380 400 415	P260TC175 P260TC195 P260TC1A5	HLP-260/2	95.80	95.70	94.60	0.900	458.2 435.3 419.5	760.0	85.27	100	220	86.0	2.970	1710
260	350	4	315J	1485	380 400 415	P260TC275 P260TC295 P260TC2A5	HLP-260/4	96.00	96.10	94.80	0.875	470.3 446.8 430.6	740.0	170.53	120	220	84.0	6.450	1800
260	350	6	315H	985	380 400 415	P260TC375 P260TC395 P260TC3A5	HLP-260/6	95.80	95.90	94.40	0.820	502.9 477.7 460.5	720.0	257.10	120	220	82.5	9.190	1800
300	400	2	315H	2970	380 400 415	P300TC175 P300TC195 P300TC1A5	HLP-300/2	95.80	95.70	94.60	0.900	528.7 502.2 484.1	760.0	98.38	100	220	86.0	2.970	1750
300	400	4	315H	1485	380 400 415	P300TC275 P300TC295 P300TC2A5	HLP-300/4	96.00	96.10	94.80	0.875	542.6 515.5 496.9	740.0	196.77	120	220	84.0	6.660	1800
300	400	6	315F	985	380 400 415	P300TC375 P300TC395 P300TC3A5	HLP-300/6	95.80	95.90	94.40	0.820	580.2 551.2 531.3	720.0	296.65	120	220	82.5	11.480	2200
315	422	2	315F	2970	380 400 415	P315TC175 P315TC195 P315TC1A5	HLP-315/2	95.80	95.80	94.70	0.900	555.1 527.3 508.3	760.0	103.30	100	220	86.0	3.220	2150
315	422	4	315G	1485	380 400 415	P315TC275 P315TC295 P315TC2A5	HLP-315/4	96.00	96.10	94.80	0.875	569.8 541.3 521.7	740.0	206.61	120	220	84.0	7.430	2160
315	422	6	350J	985	380 400 415	P315TC375 P315TC395 P315TC3A5	HLP-315/6	95.80	95.90	94.40	0.825	605.5 575.3 554.5	720.0	311.48	120	220	84.0	17.440	2550
335	450	2	315F	2970	380 400 415	P335TC175 P335TC195 P335TC1A5	HLP-335/2	95.80	95.80	94.70	0.900	590.3 560.8 540.5	760.0	109.86	100	220	86.0	3.220	2150
335	450	4	315G	1485	380 400 415	P335TC275 P335TC295 P335TC2A5	HLP-335/4	96.00	96.10	94.80	0.875	605.9 575.6 554.8	740.0	219.72	120	220	84.0	7.430	2160
335	450	6	350J	985	380 400 415	P335TC375 P335TC395 P335TC3A5	HLP-335/6	95.80	95.90	94.40	0.825	644.0 611.8 589.7	720.0	331.26	120	220	84.0	17.440	2550
355	475	2	350J	2970	380 400 415	P355TC175 P355TC195 P355TC1A5	HLP-355/2	95.80	95.80	94.70	0.900	625.6 594.3 572.8	750.0	116.42	100	220	87.0	4.020	2410
355	475	4	315F	1485	380 400 415	P355TC275 P355TC295 P355TC2A5	HLP-355/4	96.00	96.10	94.80	0.875	642.1 610.0 588.0	740.0	232.84	120	220	84.0	7.430	2160
355	475	6	352J	985	380 400 415	P355TC375 P355TC395 P355TC3A5	HLP-355/6	95.80	95.90	94.40	0.825	682.4 648.3 624.9	720.0	351.04	120	220	84.0	17.440	2640
375	500	2	350J	2970	380 400 415	P375TC175 P375TC195 P375TC1A5	HLP-375/2	95.80	95.80	94.70	0.900	660.8 627.8 605.1	750.0	122.98	100	220	87.0	4.020	2410
375	500	4	315F	1485	380 400 415	P375TC275 P375TC295 P375TC2A5	HLP-375/4	96.00	96.10	94.80	0.875	678.3 644.4 621.1	740.0	245.96	120	220	84.0	7.430	2160
375	500	6	352J	985	380 400 415	P375TC375 P375TC395 P375TC3A5	HLP-375/6	95.80	95.90	94.40	0.825	720.9 684.8 660.1	720.0	370.81	120	220	84.0	17.440	2640

TEFC, SSEN Series - IEC 60034-30-1 IE3(Premium) Efficiency Motors

Class F, Temperature rise B, 40°C ambient, 1.15S.F.

90L Frame and above: Cast iron construction(80 and below: Aluminum construction)

IP55, Diagonally split, gasketed terminal box, fully rotatable at 90 increments

100L Frame above: KS, JIS, IEC, NEMA D Flange, C-Face kits available*

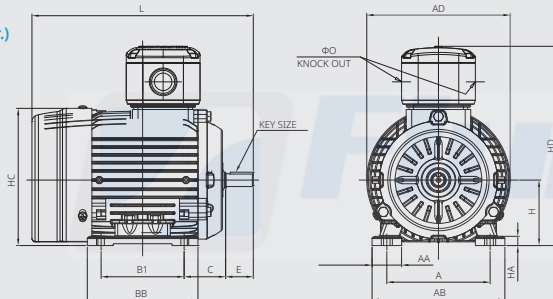
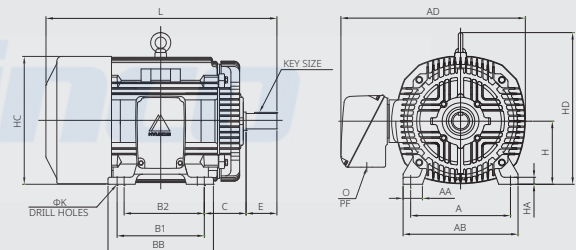
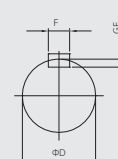
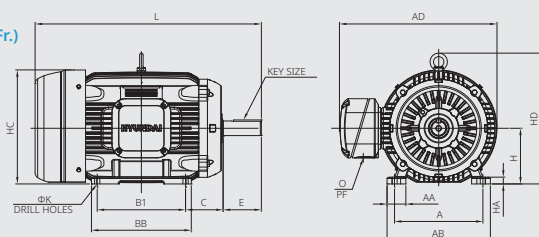
Mounting options: IM B3 (IM 1001), IM B6 (IM1051), IM B7 (IM 1061), IM B8 (IM 1071), IM V5 (IM 1011), IM V6 (IM 1031)

Flange kits available-IM B35 (IM 2001), IM V15 (IM 2011), V36 (IM 2031)*

Unit: mm

Frame Size	H	Pole	Mounting & Overall												Shaft & Keyway				Key size (B x H x L)	Terminal Box			Fig.		
			A	AA	AB	HA	B1	B2	B3	BB	C	K	N	HC	HD	L	D	E		F	GE	AD		O	PF
71M	71	2-6	112	32	144	10	90	-	-	120	45	7	4	149	216	240	14	30	5	3	5X5X25	144	28/22	-	A
80M	80	2-6	125	35	164	11	100	-	-	136	50	10	4	167	234	275	19	40	6	3.5	6X6X30	149	28/22	-	
90L	90	2-6	140	38	175	14	125	-	-	156	56	10	4	189	193	320	24	50	8	4	8X7X45	-	28	0.75	
100L	100	2-8	160	43	196	13	140	-	-	166	63	12	4	211	247	370	28	60	8	4	8X7X45	175	28	0.75	
112M	112	2-8	190	42	220	13	140	-	-	170	70	12	4	234	270	384	28	60	8	4	8X7X45	188	28	0.75	B
132S	132	2-8	216	43	251	15	140	-	-	170	89	12	4	268	311	459	38	80	10	5	10X8X63	218	35	1	
132M	132	2-8	216	43	251	15	178	-	-	207	89	12	4	268	311	496	38	80	10	5	10X8X63	218	35	1	
160M	160	2-8	254	54	297	20	210	-	-	243	108	14.5	4	328	376	607	42	110	12	5	12X8X80	287	44	1.25	
160L	160	2-8	254	54	297	20	254	-	-	287	108	14.5	4	328	376	651	42	110	12	5	12X8X80	287	44	1.25	
180M	180	2-8	279	61	330	22	241	-	-	284	121	14.5	4	361	415	672	48	110	14	5.5	14X9X80	301	50	1.5	
180L	180	2-8	279	61	330	22	279	-	-	322	121	14.5	4	361	415	710	55	110	16	6	16X10X80	301	50	1.5	
200L	200	2-8	318	64	374	23	305	(267)	-	350	133	18.5	8	468		770	55	110	16	6	16X10X80	362	60	2	
200L(LL)	200	2-8	318	64	374	23	(355)	305	-	400	133	18.5	8	468		820	55	110	16	6	16X10X80	362	60	2	C
225S	225	2	356	69	410	25	(311)	286	-	376	149	18.5	8	456	541	824	55	110	16	6	16X10X80	666	60	2	
		4-8	356	69	410	25	(311)	286	-	376	149	18.5	8	456	541	854	60	140	18	7	18X11X110	666	60	2	
250S	250	2	406	77	468	30	(349)	311	-	418	168	24	8	506	618	927	60	140	18	7	18X11X110	771	76	2.5	
		4-8	406	77	468	30	(349)	311	-	418	168	24	8	506	618	957	65	140	18	7	18X11X110	771	76	2.5	
250M	250	2	406	77	468	30	349	(311)	-	418	168	24	8	506	618	927	60	140	18	7	18X11X110	771	76	2.5	
		4-8	406	77	468	30	349	(311)	-	418	168	24	8	506	618	957	65	140	18	7	18X11X110	771	76	2.5	
280S	280	2	457	78	521	36	(419)	368	-	488	190	24	8	559	699	1072	65	140	18	7	18X11X110	827	76	2.5	
		4-12	457	78	521	36	(419)	368	-	488	190	24	8	559	699	1072	75	140	20	7.5	20x12x110	827	76	2.5	
280M	280	2	457	78	521	36	419	(368)	-	488	190	24	8	559	699	1072	65	140	18	7	18X11X110	827	76	2.5	
		4-12	457	78	521	36	419	(368)	-	488	190	24	8	559	699	1072	75	140	20	7.5	20x12x110	827	76	2.5	
280L	280	2	457	78	521	36	508	(457)	-	577	190	24	8	559	699	1120	65	140	18	7	18X11X110	827	76	2.5	
		4-12	457	78	521	36	508	(457)	-	577	190	24	8	559	699	1120	75	140	20	7.5	20x12x110	827	76	2.5	
280LL	280	2	457	78	521	38	635	(508)	-	704	190	24	8	559	699	1291	65	140	18	7	18X11X110	827	76	2.5	
		4-12	457	78	521	38	635	(508)	-	704	190	24	8	559	699	1321	85	170	22	9	22X14X140	827	76	2.5	

*: It depends on frame size

Fig. A
(71-80Fr.)Fig. C
(225-280LL Fr.)Fig. B
(90-200Fr.)

TEFC, SSEN Series - IEC 60034-30-1 IE3(Premium) Efficiency Motors

Class F, Temperature rise B, 40°C ambient, 1.0S.F.

Cast iron construction

IP55, Diagonally split, gasketed terminal box, fully rotatable at 90 increments

100L Frame above: KS, JIS, IEC, NEMA D Flange, C-Face kits available*

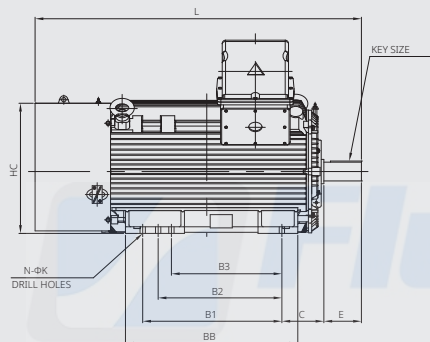
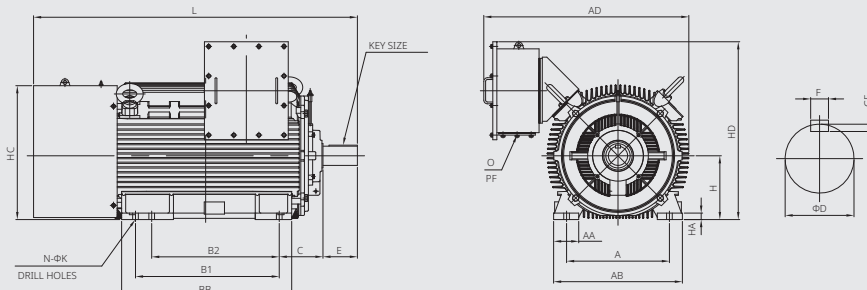
Mounting options: IM B3 (IM 1001), IM B6 (IM1051), IM B7 (IM 1061), IM B8 (IM 1071), IM V5 (IM 1011), IM V6 (IM 1031)

Flange kits available-IM B35 (IM 2001), IM V15 (IM 2011), V36 (IM 2031)*

Unit: mm

Frame Size	H	Pole	Mounting & Overall												HC	HD	L	Shaft & Keyway				Key size (B x H x L)	Terminal Box			Fig.		
			A	AA	AB	HA	B1	B2	B3	BB	C	K	N	D				E	F	GE	AD		O	PF				
280KJH	280	2	457	91	560	30	630	(560)	-	780	190	24	8	589	873	1439	70	140	20	7.5	20x12x110	895	-	3"	D			
		4	457	91	560	30	630	(560)	-	780	190	24	8	589	873	1355	85	170	22	9	22x14x140	895	-	3"				
		6~12	457	91	560	30	630	(560)	-	780	190	24	8	589	873	1477	85	170	22	9	22x14x140	895	-	3"				
315S	315	2	508	110	608	30	(508)	(457)	406	680	216	28	8	624	878	1312	65	140	18	7	18X11X110	895	-	3"		E		
		4	508	110	608	30	(508)	(457)	406	680	216	28	8	624	878	1229	80	170	22	9	22x14x140	895	-	3"				
		6~12	508	110	608	30	(508)	(457)	406	680	216	28	8	624	878	1351	80	170	22	9	22x14x140	895	-	3"				
315M	315	2	508	110	608	30	(508)	457	(406)	680	216	28	8	624	878	1312	65	140	18	7	18X11X110	895	-	3"			F	
		4	508	110	608	30	(508)	457	(406)	680	216	28	8	624	878	1229	80	170	22	9	22x14x140	895	-	3"				
		6~12	508	110	608	30	(508)	457	(406)	680	216	28	8	624	878	1351	80	170	22	9	22x14x140	895	-	3"				
315L	315	2	508	110	608	30	508	(457)	(406)	680	216	28	8	624	878	1312	65	140	18	7	18X11X110	895	-	3"				G
		4	508	110	608	30	508	(457)	(406)	680	216	28	8	624	878	1229	80	170	22	9	22x14x140	895	-	3"				
		6~12	508	110	608	30	508	(457)	(406)	680	216	28	8	624	878	1351	80	170	22	9	22x14x140	895	-	3"				
315JH	315	2	508	124	636	32	(710)	630	-	840	216	28	6	661	908	1570	70	140	20	7.5	20x12x110	1013	-	3"	H			
		4~12	508	124	636	32	(710)	630	-	840	216	28	6	661	908	1601	95	170	25	9	25x14x140	1013	-	3"				
		4~12	508	124	636	32	(710)	630	-	840	216	28	6	661	908	1601	110	210	28	10	28x16x180	1013	-	3"				
315GF	315	2	508	124	636	32	(900)	800	-	1040	216	28	6	661	878	1770	70	140	20	7.5	20x12x110	1013	-	3"		I		
		4~12	508	124	636	32	(900)	800	-	1040	216	28	6	661	878	1801	95	170	25	9	25x14x140	1013	-	3"				
		4~12	508	124	636	32	(900)	800	-	1040	216	28	6	661	878	1841	110	210	28	10	28x16x180	1013	-	3"				
355J	355	2	686	150	840	35	-	800	-	1000	254	28	4	740	999	1783	70	140	20	7.5	20x12x110	1217	-	4"			J	
		4~12	686	150	840	35	-	800	-	1000	254	28	4	740	999	1855	100	210	28	10	28x16x180	1217	-	4"				
		4~12	686	150	840	35	-	800	-	1000	254	28	4	740	999	1855	110	210	28	10	28x16x180	1217	-	4"				
400J	400	2	750	150	900	35	-	900	-	1100	280	35	4	833	1138	1918	80	170	22	9	22x14x140	1405	-	4"				K
		4~12	750	150	900	35	-	900	-	1100	280	35	4	833	1138	1958	110	210	28	10	28x16x180	1405	-	4"				
		4~12	750	150	900	35	-	900	-	1100	280	35	4	833	1138	1958	120	210	32	11	32x18x180	1405	-	4"				

*: It depends on frame size

Fig. D
(280KJH-315L Fr.)Fig. E
(315JH-400J Fr.)

TEFC, SSEN Series - IEC 60034-30-1 IE3(Premium) Efficiency Motors

Class F, Temperature rise B, 40°C ambient, 1.155.F.

90L Frame and above: Cast iron construction(80 and below: Aluminum construction)

IP55, Diagonally split, gasketed terminal box, fully rotatable at 90 increments

100L Frame above: KS, JIS, IEC, NEMA D Flange, C-Face kits available*

Mounting options : IM B14 (IM 3601), IM V18 (IM 3611)

Unit: mm

Frame Size	Pole	Flange						AC	L	Shaft & Keyway				Key size (B x H x L)	Terminal Box			Fig.
		M	N	P	n	S	T			D	E	F	GE		AD	O	PF	
71M	2-6	85	70	105	4	M6	2.5	149	245	14	30	5	3	5X5X20	216	28/22		A
80M	2-6	100	80	120	4	M6	3	166	278	19	40	6	3.5	6X6X25	234	28/22		
90L	2-6	115	95	140	4	M8	3	189	341	24	50	8	4	8X7X35	260	28	0.75	
100L	2-8	130	110	160	4	M8	3.5	211	372	28	60	8	4	8X7X45	327	28	0.75	B
112M	2-8	130	110	160	4	M8	3.5	234	389	28	60	8	4	8X7X45	345	28	0.75	
132S	2-8	165	130	200	4	M10	3.5	268	460	38	80	10	5	10X8X63	380	35	1	
132M	2-8	165	130	200	4	M10	3.5	268	498	38	80	10	5	10X8X63	380	35	1	

* : It depends on frame size

Fig. A
(71 - 80Fr.)

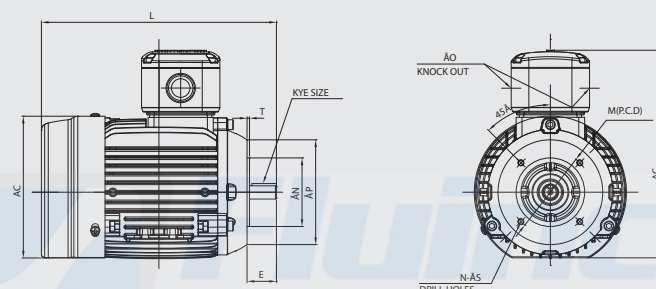
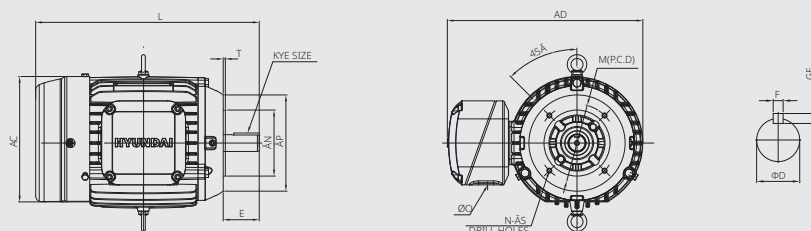


Fig. B
(90 - 132Fr.)



TEFC, SSEN Series - IEC 60034-30-1 IE3(Premium) Efficiency Motors

Class F, Temperature rise B, 40°C ambient, 1.15S.F.

90L Frame and above: Cast iron construction(80 and below: Aluminum construction)

IP55, Diagonally split, gasketed terminal box, fully rotatable at 90 increments

90L Frame above: KS, JIS, IEC, NEMA D Flange, C-Face kits available*

Mounting options: IM V1 (IM 3011), IM B5 (IM 3001), IM V3 (IM 3031)

Unit: mm

Frame Size	Pole	Flange Number	Flange							AC	L	Shaft & Keyway				Key size (B x H x L)	Terminal Box			Fig.
			M	N	P	n	S	LA	T			D	E	F	GE		AD	O	PF	
71M	2~6	FF130	130	110	160	4	10	10	3.5	122	234	14	30	5	3	5X5X20	144	28/22		A
80M	2~6	FF165	165	130	200	4	12	12	3.5	131	271	19	40	6	3.5	6X6X25	149	28/22		
90L	2~6	FF165	165	130	200	4	12	12	3.5	150	318	24	50	8	4	8X7X35	164	28	0.75	B
100L	2~8	FF215	215	180	250	4	15	13	4	191	368	28	60	8	4	8X7X45	175	28	0.75	
112M	2~8	FF215	215	180	250	4	15	13	4	251	389	28	60	8	4	8X7X45	188	28	0.75	
132S	2~8	FF265	265	230	300	4	15	16	4	292	460	38	80	10	5	10X8X63	218	35	1	
132M	2~8	FF265	265	230	300	4	15	16	4	292	498	38	80	10	5	10X8X63	218	35	1	
160M	2~8	FF300	300	250	350	4	19	16	5	347	606	42	110	12	5	12X8X80	287	44	1.25	
160L	2~8	FF300	300	250	350	4	19	16	5	347	650	42	110	12	5	12X8X80	287	44	1.25	
180M	2~8	FF300	300	250	350	4	19	16	5	387	676	48	110	14	5.5	14X9X80	301	50	1.5	
180L	2~8	FF350	350	300	400	4	19	16	5	387	714	55	110	16	6	16X10X80	301	50	1.5	
200L	2~8	FF350	350	300	400	8	19	21	5	405	771	55	110	16	6	16X10X80	362	60	2	
200L(LL)	2~8	FF350	350	300	400	8	19	21	5	405	821	55	110	16	6	16X10X80	362	60	2	

*: It depends on frame size

Fig. A
(71-80Fr.)

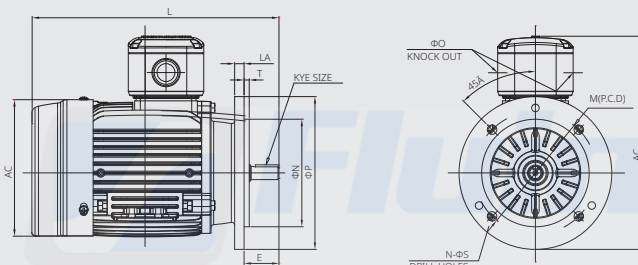
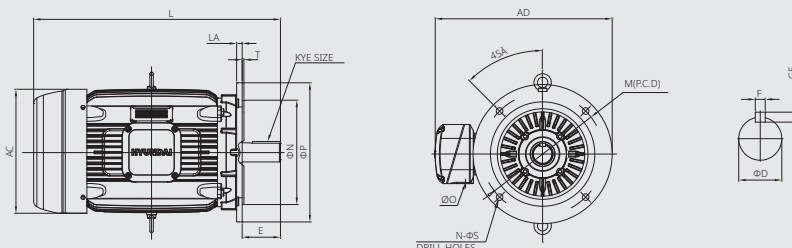


Fig. B
(90-200Fr.)



TEFC, SSEN Series - IEC 60034-30-1 IE3(Premium) Efficiency Motors

Class F, Temperature rise B, 40°C ambient, 1.0S.F.

Cast iron construction

IP55, Diagonally split, gasketed terminal box, fully rotatable at 90 increments

KS, JIS, IEC, NEMA D Flange, C-Face kits available*

Mounting options: IM V1 (IM 3011), IM B5 (IM 3001)-280L Fr. and below, IM V3 (IM 3031)-280L Fr. and below

Unit: mm

Frame Size	Pole	Flange Number	Flange							AC	L	Shaft & Keyway				Key size (B x H x L)	Terminal Box			Fig.
			M	N	P	n	S	LA	T			D	E	F	GE		AD	O	PF	
225S	2	FF400	400	350	450	8	19	21	5	450	824	55	110	16	6	16X10X80	407	60	2	C
	4~8		400	350	450	8	19	21	5	450	854	60	140	18	7	18X11X110	407	60	2	
250S	2	FF500	500	450	550	8	19	22	5	500	915	60	140	18	7	18X11X110	497	76	2.5	
	4~8		500	450	550	8	19	22	5	500	945	65	140	18	7	18X11X110	497	76	2.5	
250M	2	FF500	500	450	550	8	19	22	5	500	915	60	140	18	7	18X11X110	497	76	2.5	
	4~8		500	450	550	8	19	22	5	500	945	65	140	18	7	18X11X110	497	76	2.5	
280S	2	FF500	500	450	550	8	19	25	5	570	1031	65	140	18	7	18X11X110	527	76	2.5	
	4~12		500	450	550	8	19	25	5	570	1091	75	140	20	7.5	20X12X110	527	76	2.5	
280M	2	FF500	500	450	550	8	19	25	5	570	1031	65	140	18	7	18X11X110	527	76	2.5	
	4~12		500	450	550	8	19	25	5	570	1091	75	140	20	7.5	20X12X110	527	76	2.5	
280L	2	FF500	500	450	550	8	19	25	5	570	1120	65	140	18	7	18X11X110	527	76	2.5	
	4~12		500	450	550	8	19	25	5	570	1180	75	140	20	7.5	20X12X110	527	76	2.5	
280LL	2	FF500	500	450	550	8	19	25	5	570	1250	65	140	18	7	18X11X110	527	76	2.5	
	4~12		500	450	550	8	19	25	5	570	1310	85	170	22	9	22X14X140	527	76	2.5	
315SML (280KJH)	2	FF600	600	550	660	8	23	25	6	705	1439	65	140	18	7	18x11x110	642	-	3"	D
	4	FF600	600	550	660	8	23	25	6	705	1355	80	170	22	9	22x14x140	642	-	3"	
	4	FF600	600	550	660	8	23	25	6	705	1355	90	170	25	9	25x14x140	642	-	3"	
	6~12	FF600	600	550	660	8	23	25	6	705	1477	80	170	22	9	22x14x140	642	-	3"	
	6~12	FF600	600	550	660	8	23	25	6	705	1477	90	170	25	9	25x14x140	642	-	3"	
315JH	2	FF740	740	680	800	8	23	25	6	776	1570	75	140	20	7.5	20x12x110	716	-	3"	
	4~12	FF740	740	680	800	8	23	25	6	776	1600	95	170	25	9	25x14x140	716	-	3"	
	4~12	FF740	740	680	800	8	23	25	6	776	1640	110	210	28	10	28x16x180	716	-	3"	
315GF	2	FF740	740	680	800	8	23	25	6	806	1770	70	140	20	7.5	20x12x110	731	-	3"	
	4~12	FF740	740	680	800	8	23	25	6	806	1800	95	170	25	9	25x14x140	731	-	3"	
	4~12	FF740	740	680	800	8	23	25	6	806	1840	110	210	28	10	28x16x180	731	-	3"	
355J	2	FF840	840	780	900	8	23	31	6	854	1783	75	140	20	7.5	20x12x110	890	-	4"	
	4~12	FF840	840	780	900	8	23	31	6	854	1855	100	210	28	10	28x16x180	890	-	4"	
	4~12	FF840	840	780	900	8	23	31	6	854	1855	110	210	28	10	28x16x180	890	-	4"	
400J	2	FF940	940	880	1000	8	23	25	6	948	2398	80	170	22	8	22x14x140	1545	-	4"	
	4~12	FF940	940	880	1000	8	23	25	6	948	2438	110	210	28	10	28x16x180	1545	-	4"	
	4~12	FF940	940	880	1000	8	23	25	6	948	2438	120	210	32	11	32x18x180	1545	-	4"	

* : It depends on frame size

Fig. C
(225-280LL Fr.)

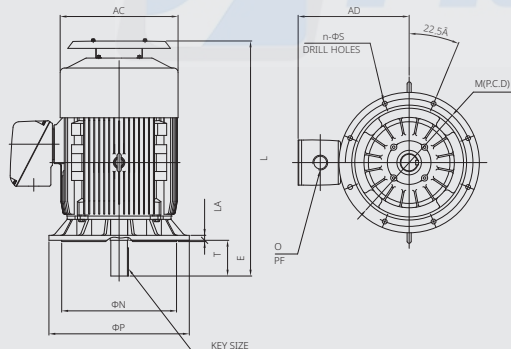
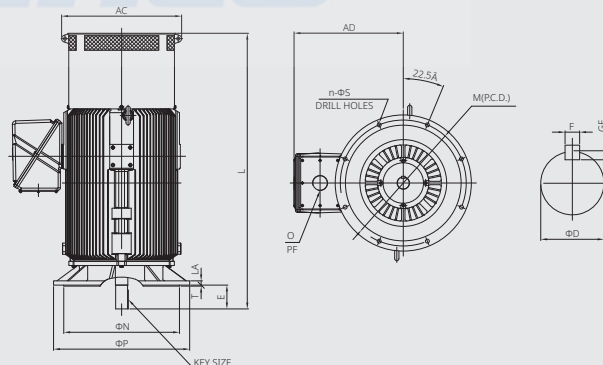


Fig. D
(280KJH-400J Fr.)



NEMA Type Specification

Frame Size	143/5	182	184	213	215	254	256	284	286	324	326
	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

Mechanical features

Nameplate		Markings		RU, CSA, CC(DOE)					
		Material		Stainless Steel AISI 304					
Frame		Material		Cast iron					
Endshields		Material		Cast iron					
Enclosure				TEFC					
Cooling method(IC)				IC411					
Degree of protection(IP rating)				IP55					
Altitude				3,300 feet(Less than 1000 meters)					
Ambient Temperature				Service factor 1.15 at 40°C ambient and 1.0 at 65°C ambient					
Fan	Material/Rotation	2P		Polypropylene/Bi-directional					
		4P _≤		Polypropylene/Bi-directional					
Fan cover		Material		Steel					
Drain plug				Automatic Plastic(Both sides of frame bottom)					
Grounding	Inside the terminal box		M6-6mmSQ	M6-10mmSQ			M8-16mmSQ		
	Outside on the frame		None(Option "M6")			None(Option "M8")			
Bearings	Drive end Shieleded /clearance	2P	6205 ZC3	6206 ZC3	6208 ZC3	6309 ZC3	6310 ZC3	6212 ZC3	
		4P _≤						6313 ZC3	
	Non-drive end Shieleded /clearance	2P	6204 ZC3	6206 ZC3	6208 ZC3	6309 ZC3	6310 ZC3	6212 ZC3	
		4P _≤							
Bearing seal			V-seal						
Axial locking configuration				No bearing cap, Preloading wave washer on NDE					
Lubrication	Type of grease		Permanently lubricated shielded bearing						Regreasable bearing
	Grease fitting		None						Greasing nipples PT1/8"
Terminal box	Material		Aluminum die casting						
	Free Leads(Without Lug)		1.0mmSQ	1.25mmSQ	2.5mmSQ		3.5	6	8mmSQ
	Terminal block		None						
	Mounting		F1(Left) Viewed from drive end						
	Leads inlet	Size	NPT 3/4"		NPT 1"	NPT 1 1/4"		NPT 1 1/2"	NPT 2"
	Plug		Plastic						
	Shaft	Material		AISI/SAE:1045, ASTM:A193 Gr.2h					
DE threaded hole		M8		M10	M16				
NDE threaded hole		None							
DE Keyway		Opened keyway							
Vibration velocity limit				0.15"/s(Velocity, in/s pk)					
Painting	Type		Polyurethane						
	Color		Pantone 279C						

Electrical features(AC 3 phase squirrel cage induction motor)

Efficiency		Premium/NEMA MG1 Part 12 Table 12-12
NEMA Design		B
Voltage		208-230/460, 460 and 575V
Frequency		60Hz
Duty		Continuous (Inverter duty for 10:1 CT and 20:1 VT [NEMA MG1 Part 31])
Winding	Material	Copper(Utilizing corona resistant magnet wire)
	Impregnation	Dip and Bake-Polyester
	Insulation class/Temp. rise	F/B
Service factor		1.15
Rotor		Aluminum die casting

Frame Size	364/5	404/5	444/5	447	449	L449	5006/7/8	5008/9	5010/11
	↓	↓	↓	↓	↓	↓	↓	↓	↓

Mechanical features

Nameplate	Markings		RU, CSA, CC(DOE)					
	Material		Stainless Steel AISI 304					
Frame	Material		Cast iron					
Endshields	Material		Cast iron					
Enclosure			TEFC					
Cooling method(IC)			IC411					
Degree of protection(IP rating)			IP55					
Altitude			3,300 feet(Less than 1000 meters)					
Ambient Temperature			Service factor 1.15 at 40°C ambient and 1.0 at 65°C ambient					
Fan	Material/Rotation	2P	Polypropylene/Bi-directional			Polypropylene/Uni-directional		
		4P≤	Polypropylene/Bi-directional					
Fan cover	Material		Steel					
Drain plug			Automatic Plastic(Both sides of frame bottom)					
Grounding	Inside the terminal box		M10-35mmSQ					
	Outside on the frame		1 x M10			2 x M10		
Bearings	Drive end Shieleded/clearance	2P	6213C3	6313C3	6314C3		6315C3	6315C3
		4P≤	6314C3	6316C3	6318C3		6322C3	6324C3
	Non-drive end Shieleded/clearance	2P	6213C3	6313C3	6314C3		6315C3	6315C3
		4P≤			6316C3		6318C3	6320C3
	Bearing seal		V-seal					
Axial locking configuration			Axially locked by bearing cap on DE, Preloading wave washer on NDE					
Lubrication	Type of grease		Regreasable bearing					
	Grease fitting		Greasing nipples PT1/8"					
Terminal box	Material		Cast iron					
	Leads(Lug Mount'g)		M10	M12				
	Terminal block		None			6xM12		
	Mounting		F1(Left) Viewed from drive end					
	Leads inlet	Size	NPT 2"	NPT 2 1/2"			NPT 3"	
	Plug		Plastic					
	Shaft	Material		AISI/SAE:1045, ASTM:A193 Gr.2h				
DE threaded hole		M16						
NDE threaded hole		None						
DE Keyway		Opened keyway						
Vibration velocity limit			0.15"/s(Velocity, in/s pk)					
Painting	Type		Polyurethane					
	Color		Pantone 279C					

Electrical features(AC 3 phase squirrel cage induction motor)

Efficiency		Premium/NEMA MG1 Part 12 Table 12-12	
NEMA/IEC Design		B	
Voltage		208-230/460, 460 and 575V(Single voltage only for 150 HP & above)	
Frequency		60Hz	
Duty		Continuous (Inverter duty for 10:1 CT and 20:1 VT [NEMA MG1 Part31])	Continuous (Inverter duty for 4:1 CT and 10:1 VT [NEMA MG1 Part31])*
Winding	Material	Copper(Heavy enamel coated wire)	
	Impregnation	Dip and Bake-Polyester	
	Insulation class/Temp. rise	F/B	
Service factor		1.15	
Rotor		Aluminum die casting	

* Inverter duty for 4:1 CT(10:1 1hour duty at lowest RPM) and 10:1 VT(20:1 at 50% load), CHp up to 1.5 times base speed[NEMA MG1 Part31])

TEFC - Crown Triton G2 Series NEMA MG1 Part12 Table12-12 Premium Efficiency Motors

IP55, 3-phase, 60Hz, 230/460V, 460V and 575V, 1.15S.F., S1 Duty

NEMA design B, Class F, Temperature rise B, 40°C ambient

HP	kW	Pole	Frame Number	rpm	Volts (V)	Catalog Number & Order Code	Type	Premium Efficiency NEMA MG1			Power factor Cosφ	Current 230V & above		Torque			Sound pressure Level LpA dB(A)	Moment of Inertia Rotor WK ² (LB.FT ²)	Approx Weight (LB.)
								Full Load 100%	3/4 Load 75%	1/2 Load 50%		Rated (A)	Locked Rotor (%)	Rated (LB.FT)	Locked Rotor %FLT	Break down %FLT			
1	0.75	2	143T	3475	230/460	PP75TC15	PLP	77.0	77.2	73.5	0.850	2.88	890	1.5	340	260	58	0.031	55
					460	PP75TC18						1.44							
					575	PP75TC14						1.15							
1	0.75	4	143T	1735	230/460	PP75TC25	PLP	85.5	85.6	79.5	0.770	2.86	980	3.0	340	310	56	0.059	55
					460	PP75TC28						1.43							
					575	PP75TC24						1.14							
1	0.75	6	145T	1140	230/460	PP75TC35	PLP	82.5	82.7	79.0	0.694	3.29	510	4.6	200	265	68	0.083	55
					460	PP75TC38						1.64							
					575	PP75TC34						1.32							
1.5	1.1	2	143T	3475	230/460	P1P1TC15	PLP	84.0	84.2	81.5	0.85	3.87	890	2.2	340	260	58	0.033	60
					460	P1P1TC18						1.93							
					575	P1P1TC14						1.55							
1.5	1.1	4	145T	1740	230/460	P1P1TC25	PLP	86.5	86.7	80.5	0.78	4.09	930	4.5	320	300	56	0.076	60
					460	P1P1TC28						2.05							
					575	P1P1TC24						1.64							
1.5	1.1	6	182T	1160	230/460	P1P1TC35	PKP	87.5	87.7	84.0	0.68	4.64	850	6.7	190	270	60	0.593	90
					460	P1P1TC38						2.32							
					575	P1P1TC34						1.86							
2	1.5	2	145T	3480	230/460	P1P5TC15	PLP	85.5	85.7	82.0	0.860	5.12	890	3.0	340	260	58	0.042	65
					460	P1P5TC18						2.56							
					575	P1P5TC14						2.05							
2	1.5	4	145T	1745	230/460	P1P5TC25	PLP	86.5	86.7	81.0	0.810	5.37	930	6.1	320	300	56	0.078	65
					460	P1P5TC28						2.69							
					575	P1P5TC24						2.15							
2	1.5	6	184T	1155	230/460	P1P5TC35	PKP	88.5	88.7	85.0	0.700	6.08	790	9.1	180	260	59	0.712	105
					460	P1P5TC38						3.04							
					575	P1P5TC34						2.43							
3	2.2	2	182T	3515	230/460	P2P2TC15	PKP	86.5	86.7	83.0	0.850	7.51	760	4.4	190	260	65	0.071	90
					460	P2P2TC18						3.76							
					575	P2P2TC14						3.00							
3	2.2	4	182T	1760	230/460	P2P2TC25	PKP	89.5	89.6	88.0	0.790	7.81	830	8.8	220	280	64	0.190	90
					460	P2P2TC28						3.91							
					575	P2P2TC24						3.12							
3	2.2	6	213T	1175	230/460	P2P2TC35	PLP	89.5	89.5	86.3	0.680	9.07	720	13.2	180	250	60	0.949	150
					460	P2P2TC38						4.54							
					575	P2P2TC34						3.63							
5	3.7	2	184T	3515	230/460	P3P7TC15	PLP	88.5	88.7	85.0	0.860	12.20	750	7.4	190	260	65	0.166	105
					460	P3P7TC18						6.10							
					575	P3P7TC14						4.88							
5	3.7	4	184T	1760	230/460	P3P7TC25	PLP	89.5	89.7	88.2	0.800	12.97	780	14.8	210	260	64	0.309	105
					460	P3P7TC28						6.49							
					575	P3P7TC24						5.19							
5	3.7	6	215T	1170	230/460	P3P7TC35	PLP	89.5	89.5	86.5	0.700	14.82	680	22.3	170	220	63	1.234	165
					460	P3P7TC38						7.41							
					575	P3P7TC34						5.93							
7.5	5.5	2	213T	3520	230/460	P5P5TC15	PLP	89.5	89.7	87.0	0.860	17.94	700	11.0	160	260	68	0.332	150
					460	P5P5TC18						8.97							
					575	P5P5TC14						7.17							
7.5	5.5	4	213T	1760	230/460	P5P5TC25	PLP	91.7	91.7	89.5	0.770	19.55	800	22.0	190	250	54	0.570	150
					460	P5P5TC28						9.78							
					575	P5P5TC24						7.82							
7.5	5.5	6	254T	1175	230/460	P5P5TC35	PLP	91.0	91.1	89.5	0.740	20.50	680	33.0	170	250	56	2.136	260
					460	P5P5TC38						10.25							
					575	P5P5TC34						8.20							

TEFC - Crown Triton G2 Series NEMA MG1 Part12 Table12-12 Premium Efficiency Motors

IP55, 3-phase, 60Hz, 230/460V, 460V and 575V, 1.15S.F., S1 Duty
NEMA design B, Class F, Temperature rise B, 40°C ambient

HP	kW	Pole	Frame Number	rpm r/min	Volts (V)	Catalog Number & Order Code	Type	Premium Efficiency NEMA MG1			Power factor Cosφ	Current 230V & above		Torque			Sound pressure Level LpA dB(A)	Moment of Inertia Rotor WK ² (LB.FT ²)	Approx Weight (LB.)
								Full Load 100%	3/4 Load 75%	1/2 Load 50%		Rated (A)	Locked Rotor (%)	Rated (LB.FT)	Locked Rotor %FLT	Break down %FLT			
10	7.5	2	215T	3525	230/460	P7P5TC15	PLP	90.2	90.3	88.0	0.870	23.99	680	15.0	160	260	68	0.451	165
					460	P7P5TC18						12.00							
					575	P7P5TC14						9.60							
10	7.5	4	215T	1760	230/460	P7P5TC25	PLP	91.7	91.7	89.7	0.805	25.50	750	30.0	180	240	54	0.712	165
					460	P7P5TC28						12.75							
					575	P7P5TC24						10.20							
10	7.5	6	256T	1175	230/460	P7P5TC35	PLP	91.0	91.1	89.6	0.750	27.58	680	45.0	170	250	56	3.086	300
					460	P7P5TC38						13.79							
					575	P7P5TC34						11.03							
15	11	2	254T	3535	230/460	PO11TC15	PLP	91.7	91.7	91.0	0.890	33.8	670	21.9	180	250	74	0.926	260
					460	PO11TC18						16.9							
					575	PO11TC14						13.5							
15	11	4	254T	1775	230/460	PO11TC25	PLP	92.4	92.4	91.4	0.815	36.7	680	43.7	200	240	64	2.136	260
					460	PO11TC28						18.3							
					575	PO11TC24						14.7							
15	11	6	284T	1175	230/460	PO11TC35	PLP	91.7	91.8	91.0	0.760	39.6	670	66.0	160	240	68	4.984	360
					460	PO11TC38						19.8							
					575	PO11TC34						15.8							
20	15	2	256T	3535	230/460	PO15TC15	PLP	91.7	91.7	91.2	0.890	46.1	650	29.9	180	250	74	1.163	300
					460	PO15TC18						23.1							
					575	PO15TC14						18.5							
20	15	4	256T	1775	230/460	PO15TC25	PLP	93.0	93.0	92.0	0.815	49.7	680	59.5	200	240	64	2.635	300
					460	PO15TC28						24.8							
					575	PO15TC24						19.9							
20	15	6	286T	1175	230/460	PO15TC35	PLP	91.7	91.8	91.2	0.770	53.3	660	89.9	150	230	68	6.100	390
					460	PO15TC38						26.7							
					575	PO15TC34						21.3							
25	18.5	2	284TS	3560	230/460	PO19TC15	PLP	91.7	91.7	89.0	0.890	56.9	700	36.6	160	230	79	1.899	380
					460	PO19TC18						28.5							
					575	PO19TC14						22.8							
25	18.5	4	284T	1775	230/460	PO19TC25	PLP	93.6	93.8	92.9	0.820	60.5	680	73.4	170	220	66	3.940	380
					460	PO19TC28						30.3							
					575	PO19TC24						24.2							
25	18.5	6	324T	1175	230/460	PO19TC35	PLP	93.0	93.2	92.0	0.800	62.4	680	110.9	160	220	68	8.094	550
					460	PO19TC38						31.2							
					575	PO19TC34						25.0							
30	22	2	286TS	3560	230/460	PO22TC15	PLP	91.7	91.7	90.0	0.890	67.7	700	43.5	160	230	79	2.089	410
					460	PO22TC18						33.8							
					575	PO22TC14						27.1							
30	22	4	286T	1775	230/460	PO22TC25	PLP	93.6	93.8	93.0	0.820	72.0	680	87.3	170	220	66	5.578	410
					460	PO22TC28						36.0							
					575	PO22TC24						28.8							
30	22	6	326T	1175	230/460	PO22TC35	PLP	93.0	93.2	92.0	0.800	74.2	680	131.9	160	220	68	10.443	560
					460	PO22TC38						37.1							
					575	PO22TC34						29.7							
40	30	2	324TS	3560	230/460	PO30TC15	PLP	92.4	92.6	91.4	0.895	91.1	650	59.4	160	230	79	3.987	550
					460	PO30TC18						45.5							
					575	PO30TC14						36.4							
40	30	4	324T	1780	230/460	PO30TC25	PLP	94.1	94.1	93.1	0.820	97.6	700	118.7	160	220	72	7.121	550
					460	PO30TC28						48.8							
					575	PO30TC24						39.0							
40	30	6	364T	1185	230/460	PO30TC35	PLP	94.1	94.3	94.0	0.820	97.6	680	178.4	150	220	73	26.650	780
					460	PO30TC38						48.8							
					575	PO30TC34						39.0							

TEFC - Crown Triton G2 Series NEMA MG1 Part12 Table12-12 Premium Efficiency Motors

IP55, 3-phase, 60Hz, 230/460V, 460V and 575V, 1.15S.F., S1 Duty
NEMA design B, Class F, Temperature rise B, 40°C ambient

HP	kW	Pole	Frame Number	rpm r/min	Volts (V)	Catalog Number & Order Code	Type	Premium Efficiency NEMA MG1			Power factor Cosφ	Current 230V & above		Torque			Sound pressure Level LpA dB(A)	Moment of Inertia Rotor WK ² (LB.FT ²)	Approx Weight (LB.)
								Full Load 100%	3/4 Load 75%	1/2 Load 50%		Rated (A)	Locked Rotor (%)	Rated (LB.FT)	Locked Rotor %FLT	Break down %FLT			
50	37	2	326TS	3560	230/460	PO37TC15	PLP	93.0	93.2	92.0	0.895	111.6	660	73.2	160	230	86	4.272	560
					460	PO37TC18						55.8							
					575	PO37TC14						44.6							
50	37	4	326T	1780	230/460	PO37TC25	PLP	94.5	94.5	93.3	0.820	119.9	700	146.4	160	220	72	8.307	550
					460	PO37TC28						59.9							
					575	PO37TC24						47.9							
50	37	6	365T	1185	230/460	PO37TC35	PLP	94.1	94.3	94.0	0.820	120.4	680	220.0	150	220	73	32.000	840
					460	PO37TC35						60.2							
					575	PO37TC34						48.1							
60	45	2	364TS	3570	230/460	PO45TC15	PLP	94.1	94.1	92.6	0.915	131.2	680	88.8	140	220	82	9.280	780
					460	PO45TC18						65.6							
					575	PO45TC14						52.5							
60	45	4	364T	1780	230/460	PO45TC25	PLP	95.0	95.1	93.2	0.850	139.9	670	178.1	150	220	82	17.640	780
					460	PO45TC28						69.9							
					575	PO45TC24						56.0							
60	45	6	404T	1185	230/460	PO45TC35	PLP	94.5	94.7	94.2	0.840	142.3	670	267.5	140	220	75	46.280	1120
					460	PO45TC38						71.2							
					575	PO45TC34						56.9							
75	55	2	365TS	3570	230/460	PO55TC15	PLP	94.5	94.5	93.0	0.915	159.7	680	108.5	140	220	82	11.040	820
					460	PO55TC18						79.8							
					575	PO55TC14						63.9							
75	55	4	365T	1780	230/460	PO55TC25	PLP	95.4	95.5	93.6	0.850	170.3	690	217.7	150	220	82	20.900	820
					460	PO55TC28						85.1							
					575	PO55TC24						68.1							
75	55	6	405T	1185	230/460	PO55TC35	PLP	94.5	94.7	94.2	0.840	173.9	680	327.0	140	220	75	55.310	1220
					460	PO55TC38						87.0							
					575	PO55TC34						69.6							
100	75	2	405TS	3570	230/460	PO75TC15	PLP	94.5	94.5	92.4	0.905	220.1	700	148.0	120	220	87	18.450	1110
					460	PO75TC18						110.1							
					575	PO75TC14						88.1							
100	75	4	405T	1780	230/460	PO75TC25	PLP	95.4	95.4	94.1	0.865	228.1	650	296.8	140	220	82	35.910	1110
					460	PO75TC28						114.1							
					575	PO75TC24						91.3							
100	75	6	444T	1185	230/460	PO75TC35	PLP	95.0	95.2	94.9	0.850	233.1	680	445.9	140	220	80	73.410	1530
					460	PO75TC38						116.6							
					575	PO75TC34						93.9							
125	95	2	444TS	3570	230/460	PO95TC15	PLP	95.0	95.0	93.5	0.900	278.9	700	187.5	120	220	92	27.420	1610
					460	PO95TC18						139.5							
					575	PO95TC14						111.6							
125	95	4	444T	1785	230/460	PO95TC25	PLP	95.4	95.5	94.6	0.880	284.1	700	375.0	140	220	85	52.510	1530
					460	PO95TC28						142.0							
					575	PO95TC24						113.6							
125	95	6	445T	1185	230/460	PO95TC35	PLP	95.0	95.2	94.9	0.850	295.3	675	564.8	140	220	80	89.860	1700
					460	PO95TC38						147.7							
					575	PO95TC34						118.1							
150	110	2	445TS	3570	460	P110TC18	PLP	95.0	95.0	93.5	0.900	161.5	700	217.1	120	220	92	33.660	1770
					575	P110TC14						129.2							
150	110	4	445T	1785	460	P110TC28	PLP	95.8	95.9	95.0	0.880	163.8	700	434.2	140	220	85	67.430	1640
					575	P110TC24						131.0							
150	110	6	447T	1185	460	P110TC38	PLP	95.8	96.0	95.7	0.850	169.5	680	654.0	140	220	80	106.310	1970
					575	P110TC34						135.6							
200	150	2	447TS	3570	460	P150TC18	PLP	95.4	95.4	93.9	0.900	219.3	700	296.0	120	220	92	44.130	1900
					575	P150TC14						175.4							

TEFC - Crown Triton G2 Series NEMA MG1 Part12 Table12-12 Premium Efficiency Motors

IP55, 3-phase, 60Hz, 230/460V, 460V and 575V, 1.15S.F., S1 Duty
NEMA design B, Class F, Temperature rise B, 40°C ambient

HP	KW	Pole	Frame Number	rpm r/min	Volts (V)	Catalog Number & Order Code	Type	Premium Efficiency NEMA MG1			Power factor Cosφ	Current 230V & above		Torque			Sound pressure Level LpA dB(A)	Moment of Inertia Rotor WK ² (LB.FT ²)	Approx Weight (LB.)
								Full Load 100%	3/4 Load 75%	1/2 Load 50%		Rated (A)	Locked Rotor (%)	Rated (LB.FT)	Locked Rotor %FLT	Break down %FLT			
200	150	4	447T	1785	460 575	P150TC28 P150TC24	PLP	96.2	96.3	95.4	0.880	222.4 177.9	700	592.0	140	220	85	73.030	1860
200	150	6	449T	1185	460 575	P150TC38 P150TC34	PLP	95.8	96.0	95.7	0.850	231.2 185.0	680	891.8	140	220	80	153.550	2430
250	190	2	449TS	3570	460 575	P190TC18 P190TC14	PLP	95.8	95.8	94.3	0.900	276.6 221.3	700	375.0	120	220	92	58.330	2430
250	190	4	449T	1785	460 575	P190TC28 P190TC24	PLP	96.2	96.3	95.4	0.880	281.7 225.4	700	749.9	140	220	85	105.370	2430
250	190	6	L449T	1185	460 575	P190TC38 P190TC34	PLP	95.80	95.10	94.0	0.840	296.3 237.1	680	1129.6	135	200	80	158.295	2890
300	225	2	L449TS	3570	460 575	P225TC18 P225TC14	PLP	95.80	95.40	95.2	0.900	327.5 262.0	700	444.0	130	225	87	43.668	2890
300	225	4	L449T	1785	460 575	P225TC28 P225TC24	PLP	96.20	95.50	95.1	0.880	333.6 266.9	710	888.1	135	225	85	101.100	2890
300	225	6	L449T	1185	460 575	P225TC38 P225TC34	PLP	95.80	95.10	94.0	0.840	350.9 280.7	675	1337.7	135	220	80	172.297	3290
350	260	2	L449TS	3570	460 575	P260TC18 P260TC14	PLP	95.80	95.40	95.2	0.900	378.5 302.8	700	513.1	130	225	87	50.550	3090
350	260	4	L449T	1785	460 575	P260TC28 P260TC24	PLP	96.20	95.50	95.1	0.880	385.5 308.4	715	1026.2	135	225	85	118.425	3090
350	260	6	5008	1185	460 575	P260TC38 P260TC34	PLP	95.80	95.10	94.0	0.840	405.5 324.4	675	1545.8	135	220	84	218.101	3880
400	300	2	L449TS	3570	460 575	P300TC18 P300TC14	PLP	95.80	95.40	95.2	0.900	436.7 349.4	700	592.0	130	225	87	60.755	3770
400	300	4	L449T	1785	460 575	P300TC28 P300TC24	PLP	96.20	95.50	95.1	0.880	444.8 355.8	710	1184.1	135	225	85	129.342	3570
400	300	6	5009	1185	460 575	P300TC38 P300TC34	PLP	95.80	95.10	94.6	0.840	467.9 374.3	675	1783.6	135	220	84	246.780	3970
450	335	2	5009S	3570	460 575	P335TC18 P335TC14	PLP	95.80	95.40	95.2	0.900	487.7 390.1	725	661.1	130	230	87	70.485	3860
450	335	4	5009	1785	460 575	P335TC28 P335TC24	PLP	96.20	95.40	94.6	0.890	491.1 392.9	720	1322.2	135	230	85	158.058	3970
450	335	6	5009	1185	460 575	P335TC38 P335TC34	PLP	95.80	95.10	94.6	0.840	522.5 418.0	675	1991.7	135	220	84	264.270	3970
500	375	2	5010S	3570	460 575	P375TC18 P375TC14	PLP	95.80	95.40	95.2	0.900	545.9 436.7	720	740.0	130	230	87	76.418	4740
500	375	4	5010	1785	460 575	P375TC28 P375TC24	PLP	96.20	95.80	94.8	0.890	549.7 439.8	715	1480.1	135	230	85	176.332	4760
500	375	4	5010	1785	460 575	P375TC28 P375TC24	PLP	96.20	95.80	94.8	0.890	549.7 439.8	715	1480.1	135	230	85	176.332	4760
600	450	4	5011	1785	460 575	P450TC28 P450TC24	PLP	96.20	95.80	94.8	0.890	659.7 527.7	715	1776.1	135	230	85	176.332	4940
500	375	6	5011	1185	460 575	P375TC38 P375TC34	PLP	95.80	95.10	94.6	0.840	584.9 467.9	675	2229.5	135	220	84	272.448	4850

TEFC - Crown Triton G2 Series NEMA MG1 Part12 Table12-12 Premium Efficiency Motors

Class F, Temperature rise B, 40°C ambient, 1.15S.F.

Cast iron construction

IP55, Diagonally split, gasketed terminal box, fully rotatable at 90 increments

NEMA C-face and D-Flange kits available*

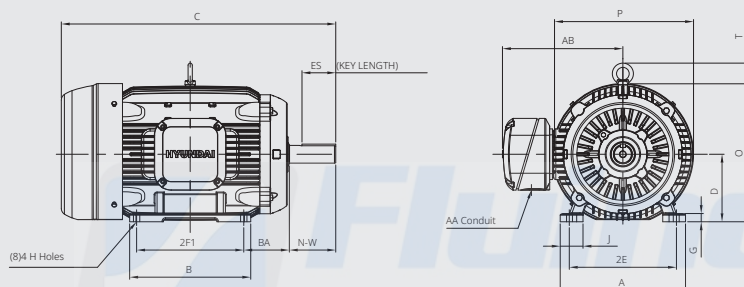
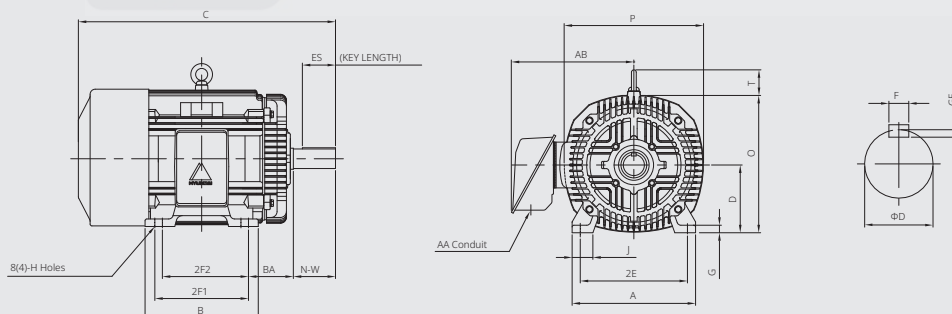
Mounting options: IM B3 (IM 1001), IM B6 (IM1051), IM B7 (IM 1061), IM B8 (IM 1071), IM V5 (IM 1011), IM V6 (IM 1031)

Flange kits available-IM B35(IM 2001), IM V15 (IM 2011), V36 (IM 2031)

Unit : inch

Frame Size	Mounting & Overall										Shaft & Keyway								Conduct Box		Fig.	
	D	2E	J	A	G	2F1	2F2	B	BA	H	P	O	T	C	U	N-W	R	S (SQ.)	ES (Length)	AB		AA
143T	3.50	5.50	1.50	6.89	0.551	(5.00)	4.00	6.14	2.25	0.34	7.56	7.44	1.49	12.88	0.875	2.250	0.771	0.188	1.410	6.46	3/4"	A
145T	3.50	5.50	1.50	6.89	0.551	5.00	(4.00)	6.14	2.25	0.34	7.56	7.44	1.49	12.88	0.875	2.250	0.771	0.188	1.410	6.46	3/4"	
182T	4.50	7.50	1.65	8.66	0.512	(5.50)	4.50	6.69	2.75	0.41	9.41	9.21	1.49	15.69	1.125	2.750	0.986	0.250	1.780	8.90	3/4"	
184T	4.50	7.50	1.65	8.66	0.512	5.50	(4.50)	6.69	2.75	0.41	9.41	9.21	1.49	15.69	1.125	2.750	0.986	0.250	1.780	8.90	3/4"	
213T	5.25	8.50	1.69	9.88	0.591	5.50	-	6.69	3.50	0.41	10.63	10.55	1.72	18.33	1.375	3.380	1.201	0.312	2.410	9.55	1"	
215T	5.25	8.50	1.69	9.88	0.591	7.00	-	8.19	3.50	0.41	10.63	10.55	1.72	19.83	1.375	3.380	1.201	0.312	2.410	9.55	1"	
254T	6.25	10.00	2.13	11.69	0.787	8.25	-	9.57	4.25	0.53	12.95	12.91	1.91	23.13	1.625	4.000	1.416	0.375	2.910	11.24	1 1/4"	
256T	6.25	10.00	2.13	11.69	0.787	10.00	-	11.30	4.25	0.53	12.95	12.91	1.91	24.86	1.625	4.000	1.416	0.375	2.910	11.24	1 1/4"	
284TS	7.00	11.00	2.40	12.99	0.866	(11.00)	9.50	11.18	4.75	0.53	14.32	14.21	2.13	27.76	1.625	3.250	1.416	0.375	1.910	12.24	1 1/2"	
284T	7.00	11.00	2.40	12.99	0.866	(11.00)	9.50	11.18	4.75	0.53	14.32	14.21	2.13	26.13	1.875	4.620	1.591	0.500	3.280	12.24	1 1/2"	
286TS	7.00	11.00	2.40	12.99	0.866	11.00	(9.50)	12.68	4.75	0.53	14.32	14.21	2.13	26.34	1.625	3.250	1.416	0.375	1.910	12.24	1 1/2"	
286T	7.00	11.00	2.40	12.99	0.866	11.00	(9.50)	12.68	4.75	0.53	14.32	14.21	2.13	27.71	1.875	4.620	1.591	0.500	3.280	12.24	1 1/2"	
324TS	8.00	12.50	2.52	14.72	0.906	(12.00)	10.50	13.78	5.25	0.66	16.22	15.95	2.53	29.59	1.875	3.750	1.591	0.500	2.030	13.19	2"	
324T	8.00	12.50	2.52	14.72	0.906	(12.00)	10.50	13.78	5.25	0.66	16.22	15.95	2.53	31.09	2.125	5.250	1.845	0.500	3.910	13.19	2"	
326TS	8.00	12.50	2.52	14.72	0.906	12.00	(10.50)	15.75	5.25	0.66	16.22	15.95	2.53	29.59	1.875	3.750	1.591	0.500	2.030	13.19	2"	
326T	8.00	12.50	2.52	14.72	0.906	12.00	(10.50)	15.75	5.25	0.66	16.22	15.95	2.53	31.09	2.125	5.250	1.845	0.500	3.910	13.19	2"	
365TS	9.00	14.00	2.52	16.14	0.984	(12.25)	11.25	15.00	5.88	0.66	18.19	18.50	3.35	31.88	1.875	3.750	1.591	0.500	2.030	16.81	3"	
364T	9.00	14.00	2.52	16.14	0.984	(12.25)	11.25	15.00	5.88	0.66	18.19	18.50	3.35	34.01	2.375	5.880	2.021	0.625	4.280	16.81	3"	
365TS	9.00	14.00	2.52	16.14	0.984	12.25	(11.25)	15.00	5.88	0.66	18.19	18.50	3.35	31.88	1.875	3.750	1.591	0.500	2.030	16.81	3"	
365T	9.00	14.00	2.52	16.14	0.984	12.25	(11.25)	15.00	5.88	0.66	18.19	18.50	3.35	34.01	2.375	5.880	2.021	0.625	4.280	16.81	3"	

* : It depends on frame size

Fig. A
(140-326Fr.)Fig. B
(364/5Fr.)

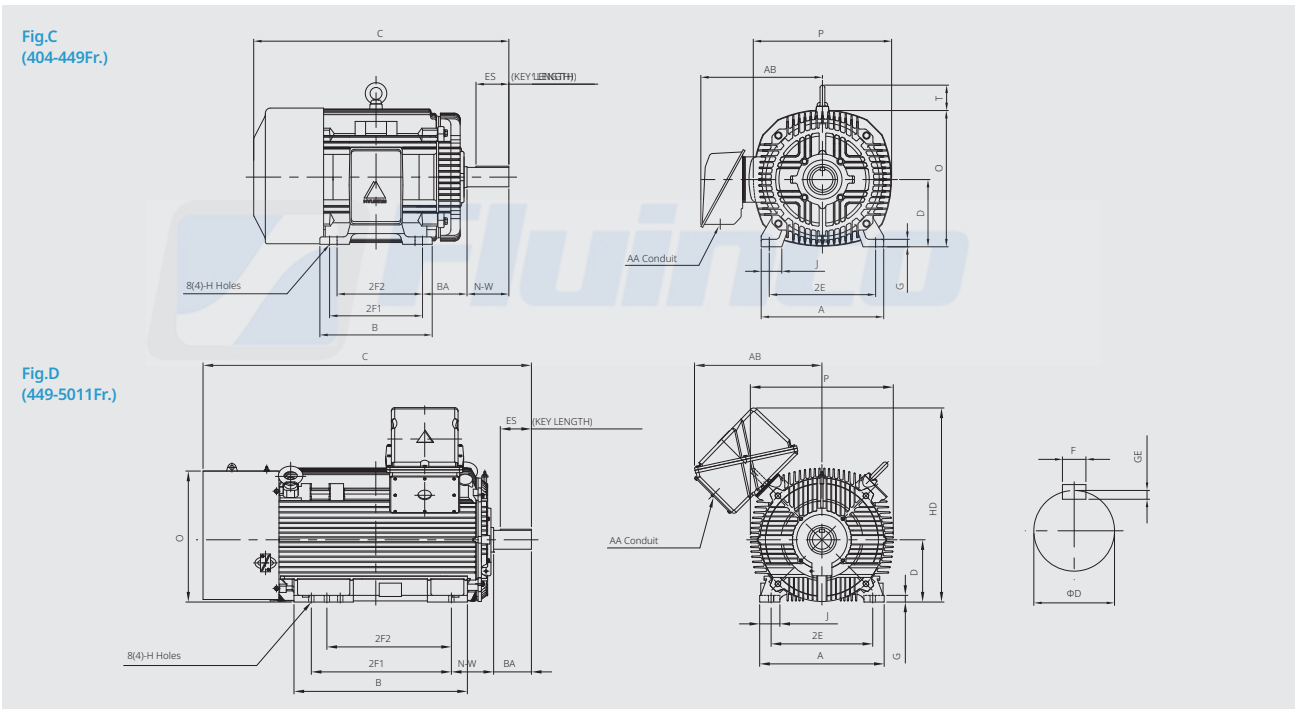
TEFC - Crown Triton G2 Series NEMA MG1 Part12 Table12-12 Premium Efficiency Motors

Class F, Temperature rise B, 40°C ambient, 1.15S.F.
Cast iron construction
IP55, Diagonally split, gasketed terminal box, fully rotatable at 90 increments
NEMA C-face and D-Flange kits available*

Mounting options: IM B3 (IM 1001), IM B6 (IM1051), IM B7 (IM 1061), IM B8 (IM 1071), IM V5 (IM 1011), IM V6 (IM 1031)
Flange kits available-IM B35((IM 2001), IM V15 (IM 2011), V36 (IM 2031)

Range kits available: LM D55 (LM 200T), LM V15 (LM 201T), V50 (LM 203T)																					Unit : inch	
Frame Size	Mounting & Overall										Shaft & Keyway							Conduct Box		Fig.		
	D	2E	J	A	G	2F1	2F2	B	BA	H	P	O	T HD	C	U	N-W	R	S (SQ.)	ES (Length)		AB	AA
404T	10.00	16.00	2.91	18.43	1.181	(13.75)	12.25	16.65	6.62	0.81	20.16	20.79	4.41	39.42	2.875	7.250	2.450	0.750	5.650	19.80	3"	
405TS	10.00	16.00	2.91	18.43	1.181	13.75	(12.25)	16.65	6.62	0.81	20.16	20.79	4.41	36.42	2.125	4.250	1.845	0.500	2.800	19.80	3"	
405T	10.00	16.00	2.91	18.43	1.181	13.75	(12.25)	16.65	6.62	0.81	20.16	20.79	4.41	39.42	2.875	7.250	2.450	0.750	5.650	19.80	3"	
444TS	11.00	18.00	3.01	20.51	1.417	(16.50)	14.50	19.41	7.50	0.81	22.44	23.19	5.51	41.46	2.375	4.750	2.021	0.625	3.030	21.10	3"	
444T	11.00	18.00	3.01	20.51	1.417	(16.50)	14.50	19.41	7.50	0.81	22.44	23.19	5.51	45.21	3.375	8.500	2.880	0.875	6.930	21.10	3"	
445TS	11.00	18.00	3.01	20.51	1.417	16.50	(14.50)	19.41	7.50	0.81	22.44	23.19	5.51	41.46	2.375	4.750	2.021	0.625	3.030	21.10	3"	
445T	11.00	18.00	3.01	20.51	1.417	16.50	(14.50)	19.41	7.50	0.81	22.44	23.19	5.51	45.21	3.375	8.500	2.880	0.875	6.930	21.10	3"	
447TS	11.00	18.00	3.01	20.51	1.417	20.00	(17.99)	22.91	7.50	0.81	22.44	23.19	5.51	44.96	2.375	4.750	2.021	0.625	3.030	21.10	3"	
447T	11.00	18.00	3.01	20.51	1.417	20.00	(17.99)	22.91	7.50	0.81	22.44	23.19	5.51	48.71	3.375	8.500	2.880	0.875	6.930	21.10	3"	
447TZ	11.00	18.00	3.01	20.51	1.417	20.00	(17.99)	22.91	7.50	0.81	22.44	23.19	5.51	50.34	3.375	10.125	2.880	0.875	8.500	21.10	3"	
449TS	11.00	18.00	3.01	20.51	1.496	25.00	(20.00)	27.91	7.50	0.81	22.44	23.19	5.51	50.08	2.375	4.750	2.021	0.625	3.030	21.10	3"	
449T	11.00	18.00	3.01	20.51	1.496	25.00	(20.00)	27.91	7.50	0.81	22.44	23.19	5.51	53.83	3.375	8.500	2.880	0.875	6.930	21.10	3"	
449TZ	11.00	18.00	3.01	20.51	1.496	25.00	(20.00)	27.91	7.50	0.81	22.44	23.19	5.51	55.46	3.375	10.125	2.880	0.875	8.500	21.10	3"	
L449TS	11.00	18.00	3.58	22.05	1.160	25.00	(20.00)	30.71	7.50	0.81	25.35	23.17	34.34	55.89	2.375	4.750	2.021	0.625	3.030	22.56	3"	
L449T-4P	11.00	18.00	3.58	22.05	1.160	25.00	(20.00)	30.71	7.50	0.81	25.35	23.17	34.34	55.18	3.375	8.500	2.880	0.875	6.930	22.56	3"	
L449T-6P	11.00	18.00	3.58	22.05	1.160	25.00	(20.00)	30.71	7.50	0.81	25.35	23.17	34.34	59.98	3.375	8.500	2.880	0.875	6.930	22.56	3"	
5008TS	12.50	20.00	4.88	25.04	1.360	25.00	(28.00)	33.00	8.50	0.94	27.55	26.00	36.40	62.03	2.625	5.750	2.275	0.625	4.000	23.12	3"	
5008T	12.50	20.00	4.88	25.04	1.360	25.00	(28.00)	33.00	8.50	0.94	27.55	26.00	36.40	67.90	3.875	11.625	3.309	1.000	10.000	23.12	3"	
5009TS	12.50	20.00	4.88	25.04	1.360	(25.00)	28.00	33.00	8.50	0.94	27.55	26.00	36.40	62.03	2.625	5.750	2.275	0.625	4.000	23.12	3"	
5009T	12.50	20.00	4.88	25.04	1.360	(25.00)	28.00	33.00	8.50	0.94	27.55	26.00	36.40	67.90	3.875	11.625	3.309	1.000	10.000	23.12	3"	
5010TS	12.50	20.00	4.88	25.04	1.360	32.00	(36.00)	41.00	8.50	0.94	27.55	26.00	36.40	67.54	2.625	5.750	2.275	0.625	4.000	23.12	3"	
5010T	12.50	20.00	4.88	25.04	1.360	32.00	(36.00)	41.00	8.50	0.94	27.55	26.00	36.40	73.41	3.875	11.625	3.309	1.000	10.000	23.12	3"	
5011TS	12.50	20.00	4.88	25.04	1.360	(32.00)	36.00	41.00	8.50	0.94	27.55	26.00	36.40	67.54	2.625	5.750	2.275	0.625	4.000	23.12	3"	
5011T	12.50	20.00	4.88	25.04	1.360	(32.00)	36.00	41.00	8.50	0.94	27.55	26.00	36.40	73.41	3.875	11.625	3.309	1.000	10.000	23.12	3"	

* : It depends on frame size



TEFC - Crown Triton G2 Series NEMA MG1 Part12 Table12-12 Premium Efficiency Motors

Class F, Temperature rise B, 40°C ambient, 1.15S.F.

Cast iron construction

IP55, Diagonally split, gasketed terminal box, fully rotatable at 90 increments

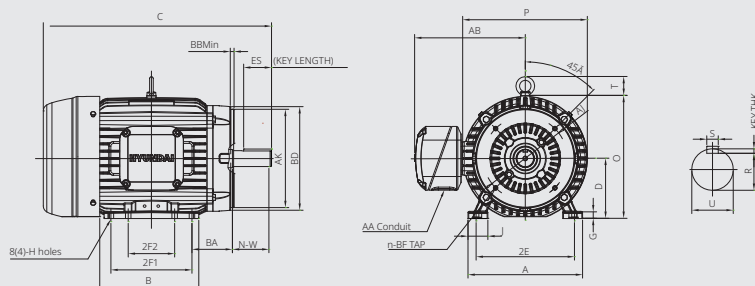
NEMA C-face and D-Flange kits available*

Unit : inch

Frame Size	Mounting & Overall										P	O	T	C	Conduct Box		Fig.
	D	2E	J	A	G	2F1	2F2	B	BA	H					AB	AA	
143TC	3.50	5.50	1.42	6.89	0.512	(5.00)	4.00	6.06	2.25	0.34	7.76	7.44	1.63	12.88	6.46	3/4"	A
145TC	3.50	5.50	1.42	6.89	0.512	5.00	(4.00)	6.06	2.25	0.34	7.76	7.44	1.63	12.88	6.46	3/4"	
182T	4.50	7.50	1.58		0.473	4.50	-	-	2.75	0.41	9.65	9.45	1.63	14.69	8.98	3/4"	
182TCH	4.50	7.50	1.58		0.473	4.50	-	-	2.75	0.41	9.65	9.45	1.63	14.69	8.98	3/4"	
184TC	4.50	7.50	1.58	8.66	0.473	5.50	(4.50)	6.69	2.75	0.41	9.65	9.45	1.63	15.69	8.98	3/4"	
184TCH	4.50	7.50	1.58	8.66	0.473	5.50	(4.50)	6.69	2.75	0.41	9.65	9.45	1.63	15.69	8.98	3/4"	
213TC	5.25	8.50	1.58	9.88	0.512	5.50	-	6.69	3.50	0.41	10.83	11.00	1.63	18.33	9.65	1"	
215TC	5.25	8.50	1.58	9.88	0.512	7.00	(5.50)	8.19	3.50	0.41	10.83	11.00	1.63	19.83	9.65	1"	
254TC	6.25	10.00	2.13	11.69	0.787	8.25	-	9.86	4.25	0.53	13.23	12.75	2.01	23.13	11.34	1 1/4"	
256TC	6.25	10.00	2.13	11.69	0.787	10.00	(8.25)	11.30	4.25	0.53	13.23	12.75	2.01	24.86	11.34	1 1/4"	
284TSC	7.00	11.00	2.40	12.99	0.866	(11.00)	9.50	11.18	4.75	0.53	14.72	14.28	2.01	27.76	12.32	1 1/2"	
284TC	7.00	11.00	2.40	12.99	0.866	(11.00)	9.50	11.18	4.75	0.53	14.72	14.28	2.01	26.13	12.32	1 1/2"	
286TSC	7.00	11.00	2.40	12.99	0.866	11.00	(9.50)	12.68	4.75	0.53	14.72	14.28	2.01	26.34	12.32	1 1/2"	
286TC	7.00	11.00	2.40	12.99	0.866	11.00	(9.50)	12.68	4.75	0.53	14.72	14.28	2.01	27.71	12.32	1 1/2"	
324TSC	8.00	12.50	2.52	14.72	0.866	(12.00)	10.50	13.78	5.25	0.66	16.54	16.06	2.41	29.59	13.19	2"	
324TC	8.00	12.50	2.52	14.72	0.866	(12.00)	10.50	13.78	5.25	0.66	16.54	16.06	2.41	31.09	13.19	2"	
326TSC	8.00	12.50	2.52	14.72	0.906	12.00	(10.50)		5.25	0.66	16.54	16.06	2.41	29.59	13.19	2"	
326TC	8.00	12.50	2.52	14.72	0.906	12.00	(10.50)		5.25	0.66	16.54	16.06	2.41	31.09	13.19	2"	

Frame Size	C-FACE								Shaft		Keyseat			Fig.
	AJ	AK	BB	BC	BD	BF	n	depth	U	N-W	R	S(SQ.)	ES(Length)	
143TC	5.875	4.50	0.16	0.12	6.46	3/8-16	4	0.56	0.875	2.250	0.771	0.188	1.410	A
145TC	5.875	4.50	0.16	0.12	6.45	3/8-16	4	0.56	0.875	2.250	0.771	0.188	1.410	
182T	7.250	8.50	0.25	0.12	8.70	1/2-13	4	0.75	1.125	2.750	0.986	0.250	1.780	
182TCH	5.875	4.50	0.16	0.12	6.46	3/8-16	4	0.56	1.125	2.750	0.986	0.250	1.780	
184TC	7.250	8.50	0.25	0.12	8.70	1/2-13	4	0.75	1.125	2.750	0.986	0.250	1.780	
184TCH	5.875	4.50	0.16	0.12	6.46	3/8-16	4	0.56	1.125	2.750	0.986	0.250	1.780	
213TC	7.250	8.50	0.25	0.25	8.84	1/2-13	4	0.75	1.375	3.380	1.201	0.312	2.410	
215TC	7.250	8.50	0.25	0.25	8.84	1/2-13	4	0.75	1.375	3.380	1.201	0.312	2.410	
254TC	7.250	8.50	0.25	0.25	8.84	1/2-13	4	0.75	1.625	4.000	1.416	0.375	2.910	
256TC	7.250	8.50	0.25	0.25	8.84	1/2-13	4	0.75	1.625	4.000	1.416	0.375	2.910	
284TSC	9.000	10.50	0.25	0.25	11.25	1/2-13	4	0.75	1.625	3.250	1.416	0.375	1.910	
284TC	9.000	10.50	0.25	0.25	11.25	1/2-13	4	0.75	1.875	4.620	1.591	0.500	3.280	
286TSC	9.000	10.50	0.25	0.25	11.25	1/2-13	4	0.75	1.625	3.250	1.416	0.375	1.910	
286TC	9.000	10.50	0.25	0.25	11.25	1/2-13	4	0.75	1.875	4.620	1.591	0.500	3.280	
324TSC	11.00	12.50	0.25	0.25	13.38	5/8-11	4	0.94	1.875	3.750	1.591	0.500	2.030	
324TC	11.00	12.50	0.25	0.25	13.38	5/8-11	4	0.94	2.125	5.250	1.845	0.500	3.910	
326TSC	11.00	12.50	0.25	0.25	13.38	5/8-11	4	0.94	1.875	3.750	1.591	0.500	2.030	
326TC	11.00	12.50	0.25	0.25	13.38	5/8-11	4	0.94	2.125	5.250	1.845	0.500	3.910	

*: It depends on frame size

Fig. A
(143-326Fr.)

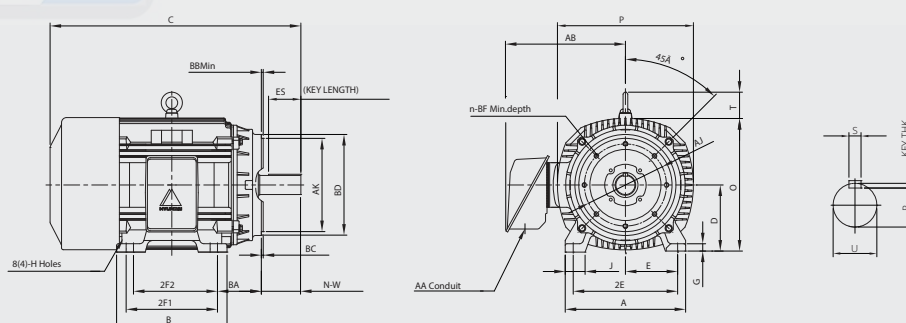
NEMA C-face and D-Flange kits available*

Unit : inch

DB

* : It depends on frame size

Fig.B
(364-449Fr.)



TEFC - Crown Triton G2 Series NEMA MG1 Part12 Table12-12 Premium Efficiency Motors

Class F, Temperature rise B, 40°C ambient, 1.15S.F.

Cast iron construction

IP55, Diagonally split, gasketed terminal box, fully rotatable at 90 increments

NEMA C-face and D-Flange kits available*

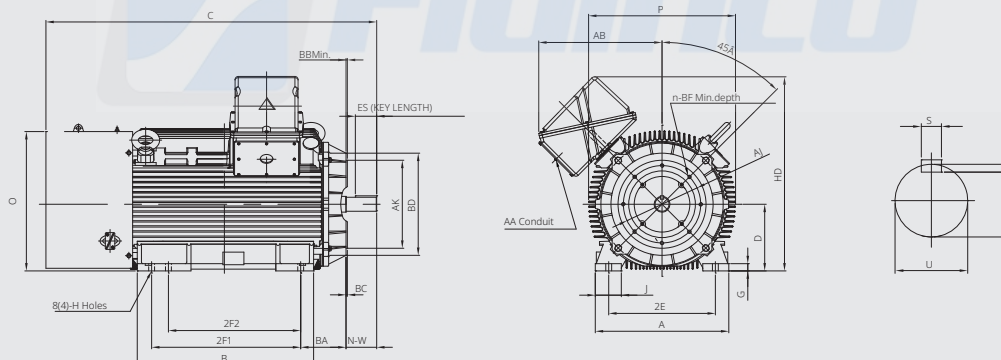
Unit : inch

Frame Size	Mounting & Overall										P	O	HD	C	Conduct Box		Fig.
	D	2E	J	A	G	2F1	2F2	B	BA	H					AB	AA	
L449TS	11.00	18.00	3.58	22.05	1.160	25.00	(20.00)	30.71	7.50	0.81	25.35	23.17	34.34	55.89	22.56	3"	C
L449T-4P	11.00	18.00	3.58	22.05	1.160	25.00	(20.00)	30.71	7.50	0.81	25.35	23.17	34.34	55.18	22.56	3"	
L449T-6P	11.00	18.00	3.58	22.05	1.160	25.00	(20.00)	30.71	7.50	0.81	25.35	23.17	34.34	59.98	22.56	3"	
5008TS	12.50	20.00	4.88	25.04	1.360	25.00	(28.00)	33.00	8.50	0.94	27.55	26.00	36.40	62.03	23.12	3"	
5008T	12.50	20.00	4.88	25.04	1.360	25.00	(28.00)	33.00	8.50	0.94	27.55	26.00	36.40	67.54	23.12	3"	
5009TS	12.50	20.00	4.88	25.04	1.360	(25.00)	28.00	33.00	8.50	0.94	27.55	26.00	36.40	62.03	23.12	3"	
5009T	12.50	20.00	4.88	25.04	1.360	(25.00)	28.00	33.00	8.50	0.94	27.55	26.00	36.40	67.54	23.12	3"	
5010TS	12.50	20.00	4.88	25.04	1.360	32.00	(36.00)	41.00	8.50	0.94	27.55	26.00	36.40	69.90	23.12	3"	
5010T	12.50	20.00	4.88	25.04	1.360	32.00	(36.00)	41.00	8.50	0.94	27.55	26.00	36.40	73.41	23.12	3"	
5011TS	12.50	20.00	4.88	25.04	1.360	(32.00)	36.00	41.00	8.50	0.94	27.55	26.00	36.40	69.90	23.12	3"	
5011T	12.50	20.00	4.88	25.04	1.360	(32.00)	36.00	41.00	8.50	0.94	27.55	26.00	36.40	73.41	23.12	3"	

Frame Size	C-FACE								Shaft		Keyseat			Fig.
	AJ	AK	BB	BC	BD	BF	n	depth	U	N-W	R	S (SQ.)	ES (Length)	
L449TSC	14.00	16.00	0.25	0.25	18	5/8-11	8	0.94	2.375	4.750	2.021	0.625	3.030	C
L449TC-4F	14.00	16.00	0.25	0.25	18	5/8-11	8	0.94	3.375	8.500	2.880	0.875	6.930	
L449TC-6F	14.00	16.00	0.25	0.25	18	5/8-11	8	0.94	3.375	8.500	2.880	0.875	6.930	
5008TSC	14.50	16.50	0.25	0.25	19	5/8-11	8	0.94	2.625	5.750	2.275	0.625	4.000	
5008TC	14.50	16.50	0.25	0.25	19	5/8-11	8	0.94	3.875	11.625	3.309	1.000	10.000	
5009TSC	14.50	16.50	0.25	0.25	19	5/8-11	8	0.94	2.625	5.750	2.275	0.625	4.000	
5009TC	14.50	16.50	0.25	0.25	19	5/8-11	8	0.94	3.875	11.625	3.309	1.000	10.000	
5010TSC	14.50	16.50	0.25	0.25	19	5/8-11	8	0.94	2.625	5.750	2.275	0.625	4.000	
5010TC	14.50	16.50	0.25	0.25	19	5/8-11	8	0.94	3.875	11.625	3.309	1.000	10.000	
5011TSC	14.50	16.50	0.25	0.25	19	5/8-11	8	0.94	2.625	5.750	2.275	0.625	4.000	
5011TC	14.50	16.50	0.25	0.25	19	5/8-11	8	0.94	3.875	11.625	3.309	1.000	10.000	

* : It depends on frame size

Fig. C
(L449-5011Fr.)



TEFC - Crown Triton G2 Series NEMA MG1 Part12 Table12-12 Premium Efficiency Motors

Class F, Temperature rise B, 40°C ambient, 1.15S.F.

Cast iron construction

IP55, Diagonally split, gasketed terminal box, fully rotatable at 90 increments

Unit : inch

Frame Size	Mounting & Overall										P	O	T	C	Conduct Box		Fig.
	D	2E	J	A	G	2F1	2F2	B	BA	H					AB	AA	
143JM	3.50	5.50	1.42	6.89	0.512	(5.00)	4.00	6.06	2.25	0.34	7.76	7.44	1.63	12.88	6.46	3/4"	A
145JM	3.50	5.50	1.42	6.89	0.512	5.00	(4.00)	6.06	2.25	0.34	7.76	7.44	1.63	12.88	6.46	3/4"	
182JM	4.50	7.50	1.58		0.473	4.50	-	-	2.75	0.41	9.65	9.45	1.63	14.69	8.98	3/4"	
184JM	4.50	7.50	1.58	8.66	0.473	5.50	(4.50)	6.69	2.75	0.41	9.65	9.45	1.63	15.69	8.98	3/4"	
213JM	5.25	8.50	1.58	9.88	0.512	5.50	-	6.69	3.50	0.41	10.83	11.00	1.63	18.33	9.65	1"	
215JM	5.25	8.50	1.58	9.88	0.512	7.00	(5.50)	8.19	3.50	0.41	10.83	11.00	1.63	19.83	9.65	1"	
254JM	6.25	10.00	2.13	11.69	0.787	8.25	-	9.86	4.25	0.53	13.23	12.75	2.01	23.13	11.34	1 1/2"	
256JM	6.25	10.00	2.13	11.69	0.787	10.00	(8.25)	11.30	4.25	0.53	13.23	12.75	2.01	24.86	11.34	1 1/2"	
284JM	7.00	11.00	2.40	12.99	0.866	(11.00)	9.50	11.18	4.75	0.53	14.72	14.28	2.01	26.13	12.32	1 1/2"	
286JM	7.00	11.00	2.40	12.99	0.866	11.00	(9.50)	12.68	4.75	0.53	14.72	14.28	2.01	27.71	12.32	1 1/2"	
324JM	8.00	12.50	2.52	14.72	0.866	(12.00)	10.50	13.78	5.25	0.66	16.54	16.06	2.41	31.09	13.19	2"	B
326JM	8.00	12.50	2.52	14.72	0.906	12.00	(10.50)		5.25	0.66	16.54	16.06	2.41	31.09	13.19	2"	
364JM	9.00	14.00	2.52	16.14	0.984	(12.25)	11.25	15.00	5.88	0.66	18.23	18.50	2.80	34.01	17.13	3"	
365JM	9.00	14.00	2.52	16.14	0.984	12.25	(11.25)	15.00	5.88	0.66	18.23	18.50	2.80	34.01	17.13	3"	

Frame Size	JM-Flange							Shaft						Keyseat			Fig.		
	AJ	AK	BB	BD	BF	n	depth	U	EL	EM	Tap	EN Bolt	depth	EQ	ET	R		ES	S
143JM	5.875	4.50	0.16	6.46	3/8-16	4	0.56	0.874	1.156	1.000	3/8-16	0.75	1.12	0.630	2.880	0.768	1.575	0.188	A
145JM	5.875	4.50	0.16	6.45	3/8-16	4	0.56	0.874	1.156	1.000	3/8-16	0.75	1.12	0.630	2.880	0.768	1.575	0.188	
182JM	5.875	4.50	0.16	6.46	3/8-16	4	0.56	0.874	1.250	1.000	3/8-16	0.75	1.12	0.630	2.880	0.768	1.575	0.188	
184JM	5.875	4.50	0.16	6.46	3/8-16	4	0.56	0.874	1.250	1.000	3/8-16	0.75	1.12	0.630	2.880	0.768	1.575	0.188	
213JM	7.250	8.50	0.25	8.84	1/2-13	4	0.75	0.874	1.250	1.000	3/8-16	0.75	1.12	0.630	2.880	0.768	1.575	0.188	
215JM	7.250	8.50	0.25	8.84	1/2-13	4	0.75	0.874	1.250	1.000	3/8-16	0.75	1.12	0.630	2.880	0.768	1.575	0.188	
254JM	7.250	8.50	0.25	8.84	1/2-13	4	0.75	1.249	1.750	1.375	3/8-16	0.75	1.12	0.630	3.000	1.110	2.480	0.250	
256JM	7.250	8.50	0.25	8.84	1/2-13	4	0.75	1.249	1.750	1.375	3/8-16	0.75	1.12	0.630	3.000	1.110	2.480	0.250	
284JM	11.00	12.50	0.25	13.38	5/8-11	4	0.75	1.249	1.750	1.375	3/8-16	0.75	1.12	0.630	3.000	1.110	2.480	0.250	
286JM	11.00	12.50	0.25	13.38	5/8-11	4	0.75	1.249	1.750	1.375	3/8-16	0.75	1.12	0.630	3.000	1.110	2.480	0.250	
324JM	11.00	12.50	0.25	13.38	5/8-11	4	0.94	1.249	1.750	1.375	3/8-16	0.75	1.12	0.630	3.000	1.110	2.480	0.250	B
326JM	11.00	12.50	0.25	13.38	5/8-11	4	0.94	1.249	1.750	1.375	3/8-16	0.75	1.12	0.630	3.000	1.110	2.480	0.250	
364JM	11.00	12.50	0.25	13.38	5/8-11	8	0.94	1.249	1.750	1.375	3/8-16	0.75	1.12	0.630	3.000	1.110	2.480	0.250	
365JM	11.00	12.50	0.25	13.38	5/8-11	8	0.94	1.249	1.750	1.375	3/8-16	0.75	1.12	0.630	3.000	1.110	2.480	0.250	

Fig. A
(140-326Fr.)

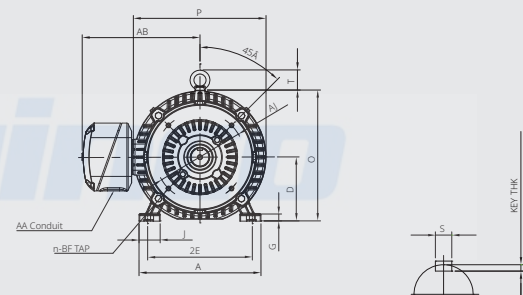
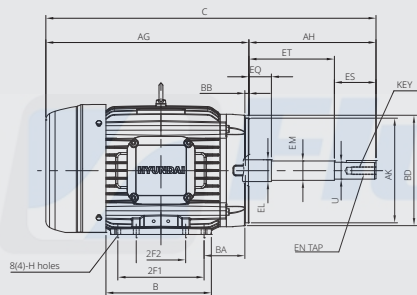
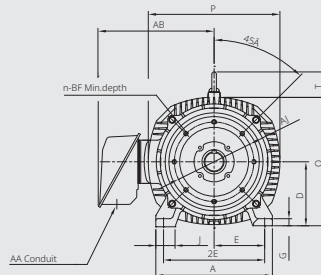
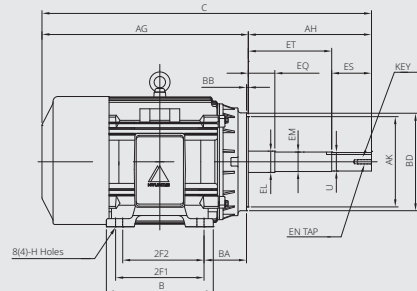


Fig. B
(364/5Fr.)



TEFC - Crown Triton G2 Series NEMA MG1 Part12 Table12-12 Premium Efficiency Motors

Class F, Temperature rise B, 40°C ambient, 1.15S.F.

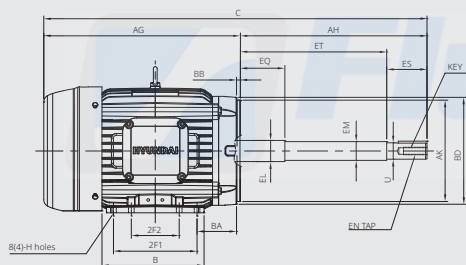
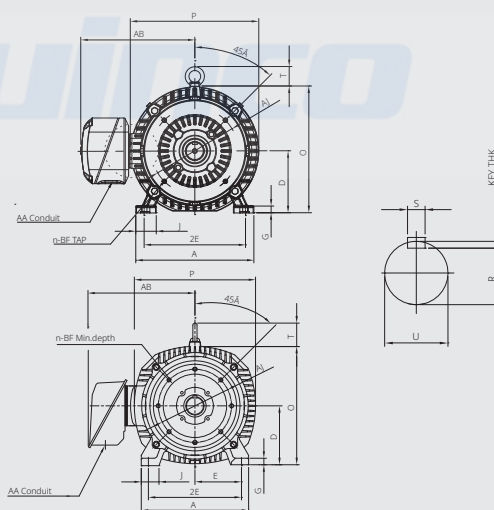
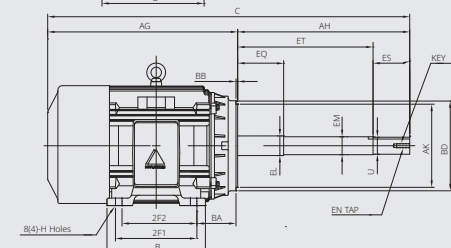
Cast iron construction

IP55, Diagonally split, gasketed terminal box, fully rotatable at 90 increments

Unit : inch

Frame Size	Mounting & Overall										P	O	T	C	Conduct Box		Fig.
	D	2E	J	A	G	2F1	2F2	B	BA	H					AB	AA	
143JP	3.50	5.50	1.42	6.89	0.512	(5.00)	4.00	6.06	2.25	0.34	7.76	7.44	1.63	12.88	6.46	3/4"	
145JP	3.50	5.50	1.42	6.89	0.512	5.00	(4.00)	6.06	2.25	0.34	7.76	7.44	1.63	12.88	6.46	3/4"	
182JP	4.50	7.50	1.58		0.473	4.50	-	-	2.75	0.41	9.65	9.45	1.63	14.69	8.98	3/4"	
184JP	4.50	7.50	1.58	8.66	0.473	5.50	(4.50)	6.69	2.75	0.41	9.65	9.45	1.63	15.69	8.98	3/4"	
213JP	5.25	8.50	1.58	9.88	0.512	5.50	-	6.69	3.50	0.41	10.83	11.00	1.63	18.33	9.65	1"	
215JP	5.25	8.50	1.58	9.88	0.512	7.00	(5.50)	8.19	3.50	0.41	10.83	11.00	1.63	19.83	9.65	1"	
254JP	6.25	10.00	2.13	11.69	0.787	8.25	-	9.86	4.25	0.53	13.23	12.75	2.01	23.13	11.34	1 1/2"	
256JP	6.25	10.00	2.13	11.69	0.787	10.00	(8.25)	11.30	4.25	0.53	13.23	12.75	2.01	24.86	11.34	1 1/2"	
284JP	7.00	11.00	2.40	12.99	0.866	(11.00)	9.50	11.18	4.75	0.53	14.72	14.28	2.01	26.13	12.32	1 1/2"	
286JP	7.00	11.00	2.40	12.99	0.866	11.00	(9.50)	12.68	4.75	0.53	14.72	14.28	2.01	27.71	12.32	1 1/2"	
324JP	8.00	12.50	2.52	14.72	0.866	(12.00)	10.50	13.78	5.25	0.66	16.54	16.06	2.41	31.09	13.19	2"	
326JP	8.00	12.50	2.52	14.72	0.906	12.00	(10.50)		5.25	0.66	16.54	16.06	2.41	31.09	13.19	2"	
364JP	9.00	14.00	2.52	16.14	0.984	(12.25)	11.25	15.00	5.88	0.66	18.23	18.50	2.80	34.01	17.13	3"	
365JP	9.00	14.00	2.52	16.14	0.984	12.25	(11.25)	15.00	5.88	0.66	18.23	18.50	2.80	34.01	17.13	3"	
404JP	10.00	16.00	2.91	18.43	1.181	(13.75)	12.25	16.65	6.62	0.81	20.16	20.79	3.55	39.42	20.28	3"	
405JP	10.00	16.00	2.91	18.43	1.181	13.75	(12.25)	16.65	6.62	0.81	20.16	20.79	3.55	39.42	20.28	3"	

Frame Size	JP-Flange							Shaft							Keyseat			Fig.
	AJ	AK	BB	BD	BF	n	depth	U	EL	EM	EN		EQ	ET	R	ES	S	
											Tap	Bolt						
143JP	5.875	4.50	0.16	6.46	3/8-16	4	0.56	0.874	1.156	1.000	3/8-16	0.75	1.12	1.563	5.941	0.768	1.575	0.188
145JP	5.875	4.50	0.16	6.45	3/8-16	4	0.56	0.874	1.156	1.000	3/8-16	0.75	1.12	1.563	5.941	0.768	1.575	0.188
182JP	5.875	4.50	0.16	6.46	3/8-16	4	0.56	0.874	1.250	1.000	3/8-16	0.75	1.12	1.563	5.941	0.768	1.575	0.188
184JP	5.875	4.50	0.16	6.46	3/8-16	4	0.56	0.874	1.250	1.000	3/8-16	0.75	1.12	1.563	5.941	0.768	1.575	0.188
213JP	7.250	8.50	0.25	8.84	1/2-13	4	0.75	0.874	1.250	1.000	3/8-16	0.75	1.12	2.382	5.886	0.768	1.575	0.188
215JP	7.250	8.50	0.25	8.84	1/2-13	4	0.75	0.874	1.250	1.000	3/8-16	0.75	1.12	2.382	5.886	0.768	1.575	0.188
254JP	7.250	8.50	0.25	8.84	1/2-13	4	0.75	1.249	1.750	1.375	1/2-13	1.00	1.50	2.382	5.886	1.110	2.480	0.250
256JP	7.250	8.50	0.25	8.84	1/2-13	4	0.75	1.249	1.750	1.375	1/2-13	1.00	1.50	2.382	5.886	1.110	2.480	0.250
284JP	11.00	12.50	0.25	13.38	5/8-11	4	0.75	1.249	1.750	1.375	1/2-13	1.00	1.50	2.382	5.886	1.110	2.480	0.250
286JP	11.00	12.50	0.25	13.38	5/8-11	4	0.75	1.249	1.750	1.375	1/2-13	1.00	1.50	2.382	5.886	1.110	2.480	0.250
324JP	11.00	12.50	0.25	13.38	5/8-11	4	0.94	1.249	1.750	1.375	1/2-13	1.00	1.50	2.382	5.886	1.110	2.480	0.250
326JP	11.00	12.50	0.25	13.38	5/8-11	4	0.94	1.249	1.750	1.375	1/2-13	1.00	1.50	2.382	5.886	1.110	2.480	0.250
364JP	11.00	12.50	0.25	13.38	5/8-11	8	0.94	1.249	1.750	1.375	1/2-13	1.00	1.50	2.382	5.886	1.110	2.480	0.250
365JP	11.00	12.50	0.25	13.38	5/8-11	8	0.94	1.249	1.750	1.375	1/2-13	1.00	1.50	2.382	5.886	1.110	2.480	0.250
404JP	11.00	12.50	0.25	13.78	5/8-11	8	0.94	1.624	2.215	1.750	1/2-13	1.00	1.50	2.382	5.886	1.413	2.480	0.375
405JP	11.00	12.50	0.25	13.78	5/8-11	8	0.94	1.624	2.215	1.750	1/2-13	1.00	1.50	2.382	5.886	1.413	2.480	0.375

Fig. A
(140-326Fr.)Fig. B
(364/5Fr.)

Options Table

O: Available, N/A: Not Applicable

Available options and tests will be charged. Please contact us.

Ver.0

Opt. Num.	Description		NEMA	143/5	182/4	213/5	254/6	284/6	324/6	364/5	404/5	444/9	L449	5008/11
			IEC	90	112	132	160	180	200	225	250	280SML	280KJH	315
O1	Additional Nameplate	Customer Part Number	☐											
O2		Bearing Data	☐											
O3		Rotation	☐											
O4	Re-Mark Leads		☐											
O5	NEMA C-Face		☐											
O6	NEMA D-Flange		☐											
O7	Dripcover		☐											
O8	1 x Auxiliary conduit box		☐											
O9	2 x Auxiliary conduit boxes(Seperating Temp. Sensors and Heater if specified)		N/A							☐				
O10	Cast Iron Conduit Box		☐							Standard				N/A
O11	Tap or Provide Additional Lead Hole		☐										N/A	
O12	Roate Conduit Box Lead Opening (Location: Fan cover or Top)		☐											
O13	Oversized Cast Iron Conduit Box (One Frame Up Size)		☐							N/A				
O14	Leads, Install Terminal Lugs (Only NEMA Standard Motor)		☐											
O15	Longer Leads, Total Length Up to:	18 inches(0.45meters)	☐							N/A				
O16		24 inches(0.6meters)	☐							N/A				
O17		36 inches(1.0meters)	☐							N/A				
O18		59 inches(1.5meters)	☐							N/A				
O19	Install IEC Terminal Blocks in Conduit Box and Connect Leads		6xM4	6xM5				6xM8			6xM12			
O20	Stock Motor/F1 to F2 Mounting Conversion		☐											
O21	Bearing Temp. Detector	100 OHM Platinum	N/A							☐				
O22		Thermocouple	N/A							☐				
O23	Winding Temp. Detector	Thermostats	One per phase	☐										
O24			Two per phase	☐										
O25		100 OHM Platinum	One per phase	☐										
O26			Two per phase	☐										
O27		Thermistors	One per phase	☐										
O28			Two per phase	☐										
O29		Thermocouples	One per phase	☐										
O30			Two per phase	☐										
O31	Space heater		☐											
O32	Ball to Roller 1800 RPM or Below		N/A							☐				
O33	Double shielded bearing to Sealed bearings		☐						Sealed	Open bearings(Not recommended)				
O34	Tropicalization/ Protection of Winding and Mechanical Parts		☐										N/A	
O35	Install "T" Drain/Two Stainless		☐											
O36	Install Oil Seals		☐											
O37	Install Inpro or Protech/Seal Drive End Only		☐											
O38	Hardware/Exchange Plated Hardware with Stainless Steel		☐											
O39	Grounding Screw/ Attach bolt and lug to frame foot side	☐												
		M6				M8			M10			2x M10-CU Plate		
O40	Fan Material(ALUMINUM)		☐											

O: Available, N/A: Not Applicable

Available options and tests will be charged. Please contact us.

Ver.0

Opt. Num.	Description	NEMA	143/5	182/4	213/5	254/6	284/6	324/6	364/5	404/5	444/9	L449	5008/11
		IEC	90	112	132	160	180	200	225	250	280SML	280KJH	315
O41	Cast Iron Fan Cover												
O42	Shaft Grounding Brush Assembly Spring Loaded Grounding Brush-DE Only												
O43	Install AEGIS shaft Grounding Ring-DE Only												
O44	Installation of HELWIG Grounding Brush (Uncludes Brush and Brush Holder-DE Only)	N/A											
O45	Paint/Top Coat Paint Color Change												
O46	Paint/External Epoxy Paint(RAL7016)												
O47	Paint/Internal Epoxy Paint(Maker Standard)												

Dynamic Balance of Rotor

Re-balance stock motor to special balance NEMA 140 through 5011(NEMA MG1 Part 7 Table 7-1)

Mounting: Resilient

Opt. Num.	Vibration grade		A	B
	NEMA Frame		Standard Balance	Special Balance
			Velocity, in/s, g pk	
O48	140≤NEMA FRAME≤210	140 - 215T	0.15"/s	0.08"/s
O49	210≤NEMA FRAME≤440	254T - 286	0.15"/s	0.08"/s
O50		324 - 365	0.15"/s	0.08"/s
O51		404 - 445	0.15"/s	0.08"/s
O52		447 - 449T	0.15"/s	0.10"/s
O53	NEMA FRAME>440	5008-5011	0.15"/s	0.10"/s

Re-balance stock motor to special balance IEC 71 through 315(IEC 60034-14(2018))

Mounting: Free suspension

Opt. Num.	Vibration grade		A	B
	IEC&KS&JIS Frame Size Shaft height(mm)		Standard Balance	Special Balance
			Velocity, mm/s(r.m.s.)	
O54	56≤IEC 60034-14(2018)≤132	71 - 112M	2.8mm/s	1.1mm/s
O55	IEC 60034-14(2018)>132	132SM	2.8mm/s	1.1mm/s
O56		160 - 180L	2.8mm/s	1.8mm/s
O57		200 - 225S	2.8mm/s	1.8mm/s
O58		250 - 280M	2.8mm/s	1.8mm/s
O59		280L - 280LL	2.8mm/s	1.8mm/s
O60		315S ~ 315F	2.8mm/s	1.8mm/s

Testing

CSA C390 Method 1 Equivalent to IEEE 112 Method B Performance Testing

Three pahse stock motors will be tested under lab conditions according to CSA C390(equivalent to IEEE 112b).

Complete test data will be supplied.

Opt. Num.	Description	NEMA	143/5	182/4	213/5	254/6	284/6	324/6	364/5	404/5	444/9	L449	5008/11
		IEC	90	112	132	160	180	200	225	250	280SML	280KJH	315
O64													

Witnessed CSA C390 Method 1 Equivalent to IEEE 112 Method B Performance Testing

Test schedule must be coordinated with HE office.

Opt. Num.	Description	NEMA	143/5	182/4	213/5	254/6	284/6	324/6	364/5	404/5	444/9	L449	5008/11
		IEC	90	112	132	160	180	200	225	250	280SML	280KJH	315
O65													

Short Test

Motor Performance -Short Test

Three phase motors will have any or all of the following motor characteristics measured. Test data will be supplied.

All data will be taken on cold motor.

- No Load Current
- Full Load Current
- Locked Rotor(Starting) Current
- Locked Rotor Torque
- Breakdown Torque
- Hi-Potential Test

Opt. Num.	Description	NEMA	143/5	182/4	213/5	254/6	284/6	324/6	364/5	404/5	444/9	L449	5008/11
		IEC	90	112	132	160	180	200	225	250	280SML	280KJH	315
O66													

Routine Test

This is a test reported per IEEE Std. 112-2004 Annex B. All data will be taken on a cold motor. Test includes:

- No Load Current
- Locked Rotor Current
- Winding resistance
- High-Potential

Tests may also be performed as a witnessed test. Test schedule must be coordinated with the HE corporate office.

Opt. Num.	Description	NEMA	143/5	182/4	213/5	254/6	284/6	324/6	364/5	404/5	444/9	L449	5008/11
		IEC	90	112	132	160	180	200	225	250	280SML	280KJH	315
O67													

Complete Performance Test

A Complete test uses a dynamometer to verify nameplate description and electrical design characteristics.

The motor is allowed to achieve its full load temperature rise before making performance measurements.

Testing conducted per IEEE Std 112-2004 Annex C. Test report includes:

- No Load Current
- Full Load Current
- Locked Rotor(Starting) Current
- Locked Rotor Torque
- Breakdown Torque
- Hi-Potential Test
- Winding Resistance
- Full Load Heat Run
- Temperature Rise
- Full Load Slip
- Measure breakdown and starting torques
- Measure efficiency at 100%, 75%, 50%, 25% of full load
- Measure power factor at 100%, 75%, 50%, 25% of full load

Tests may also be performed as a witnessed test. Test schedule must be coordinated with the HE corporate office.

Opt. Num.	Description	NEMA	143/5	182/4	213/5	254/6	284/6	324/6	364/5	404/5	444/9	L449	5008/11
		IEC	90	112	132	160	180	200	225	250	280SML	280KJH	315
O68													

Sound Measurement Test

Two tests are available to measure the sound produced by the motor at idle and operated from at line power supply.

The basic test is an overall sound measurement (one band).

The Noise test that verifies sound levels per procedures defined in IEEE-85 under a NO Load Condition showing an octave band analysis is also available.

Double these prices for witnessed tests.

Opt. Num.	Description	NEMA	143/5	182/4	213/5	254/6	284/6	324/6	364/5	404/5	444/9	L449	5008/11
		IEC	90	112	132	160	180	200	225	250	280SML	280KJH	315
O69													

GENERAL INFORMATION

Catalog Numbering & Order Code System

Position No.	1	2	3	4	5	6	7	8	9	10	11	12	
Position1: Electrical Design						Position 5: Voltages							
P	IE3 Premium Efficiency(3Φ), Design B					1	440				A	415	
H	IE2 High Efficiency(3Φ), Design B					2	220/380, 220YD				B	480	
S	IE1 Standard Efficiency(3Φ), Design B					3	220/440, 220/440YD				C	208	
C	NEMA Design C, IE3 Premium Efficiency(3Φ)					4	575, 575YD				D	220	
T	NEMA Design C, IE2 High Efficiency(3Φ)					5	208-230/460, 208-230/460YD				E	230	
N	NEMA Design C, IE1 Standard Efficiency(3Φ)					6	200, 200YD				F	450	
D	NEMA Design D, Standard Efficiency(3Φ)					7	380, 380YD				G	500	
I	Inverter Duty(3Φ), Design B					8	460, 460YD				H	550	
R	Constant Torque(1:10) & Variable Torque(1:20)					9	400				I	660	
	Inverter Duty(3Φ), Design B					0	230/460, 230/460YD				J	690	
V	Constant Torque(1:4) & Variable Torque(1:10)										P	380/660	
	Inverter Duty(3Φ), Design B										R	400/690	
Constant Torque(1:1000)													
Position 2: HP(kW)						Position 6: Frequency & Rule Dimension							
P15	0.2HP(0.15kW)		O11	15HP(11kW)		Default: 60Hz NEMA Standard							
P22	0.3HP(0.22kW)		:	:		6	60Hz KS & JIS Standard						
P37	0.5HP(0.37kW)		:	:		5	50Hz IEC Standard						
P55	0.75HP(0.55kW)		O45	60HP(45kW)		1	60Hz KS & JIS Down frame						
P75	1HP(0.75kW)		:	:		2	60Hz KS & JIS UP frame						
1P1	1.5HP(1.1kW)		110	150HP(110kW)		3	50Hz KS & JIS Down frame						
:	:		:	:		4	50Hz KS & JIS UP frame						
7P5	10P(7.5kW)		750	1000HP(750kW)		7	60Hz IEC Down frame						
						8	60Hz IEC UP frame						
						9	50Hz IEC Down frame						
						0	50Hz IEC UP frame						
						A	60Hz NEMA Down frame						
						B	60Hz NEMA UP frame						
						E	50Hz NEMA Down frame						
						G	50Hz NEMA UP frame						
Position 3: Product Group						Position 7: Shaft							
TC	TEFC Cast Iron					Default: Standard shaft							
TA	TEFC Alumium					S	Short shaft						
TI	TEFC IEEE841					L	Long shaft						
TS	TEFC Severe Duty					D	Double shaft						
AO	TEAO					M	JM shaft						
NV	TENV					J	JP shaft						
EK	Ex e IIB T3 KOSHA or KGS					O	Hollow shaft						
GK	Ex d IIB T4 KOSHA or KGS					W	W CCP shaft						
EC	Ex ec IIC T3 Atex(Ex nA)					T	Tapped shaft						
BX	Ex db IIB T4 Atex(Ex d IIB)					Z	Special shaft						
BE	Ex dbec IIB T4 Atex(Ex de IIB)												
CX	Ex db IIC T4 Atex(Ex d IIC)												
CE	Ex dbec IIC T4 Atex(Ex de IIC)												
XO	Explosion Proof, Class1 & 2, Divison1(UL)-Max. Fr-280LL(449)												
PO	Explosion Proof, Class1, Divison2												
PT	Explosion Proof, Class2, Divison2												
DR	Open Drip Proof Rolled Steel												
DC	Open Drip Proof Cast Iron												
TR	TEFC Rolled Steel												
BB	Brake Motor, Type B, Normally Closed												
BA	Brake Motor, Type A, Normally Closed												
WD	Washdown Motor												
Position 4: Poles						Position 8: Flange & Bearing							
1	2p					Default: Horizontal(B3)							
2	4p					K	KS & JIS D-Flange						
3	6P					I	IEC D-Flange						
4	8p					C	NEMA C-Face						
5	10p					F	NEMA D-Flange						
6	12p					H	TCH Flange						
7	14p					P	P-Base						
8	16p												
9	Multispeed					Position 9: Mounting & Base							
0						Default: F-1(B3), Rigid Base							
						Q	F-2 Assambly						
						R	No Base(B5)						
						V	No Base(V1)						
						Position10, 11, 12: Special Features							
						Default							
						Loader and application , Output							

	Rated Output	Number of Poles	Rated Voltage	Rated Frequency	Insulation Class	FR No.	
Load				Coupling Method	Direct		
Starting Method					Belt		
Application					Others		
Moment of Inertia	Load(Max.)		kg-m ²	* The moment of inertia is required in case of Fan, Blower, Compressor			
	Motor		kg-m ²				
Mounting Type	Horizontal-Foot(B3), Flange at drive end(B5), Vertical(V1)			Service Duty	Continuous running duty - S1		
	Others				Short-time duty - S2	hr./min	
Rotation	Viewed from Drive End	C.W			Intermittent periodic duty -S4	%ED	
		C.C.W		Site perationg Conditions	Ambient temperature	40°C	Others
Standard	KS, IEC, NEMA		Others		Installation place	Indoor/Outdoor	
Terminal Box Location	Viewed from Drive End	Left			Altitude	Not exceed 1,000m above sea level	
		Right			Humidity	Not exceed 90%	
Enclosure (Protection)	Totally Enclosed	IP44, IP54			Level of ventilation	Good	Bad condition
	Open Drip Proof	IP22, IP23		Corrosive Material			
	Explosion			Explosive Material			
Noise	Manufacturer's Standard		Others	Terminal Box in conjunction with other type of Standard cable entry	Cable Gland		
Vibration	Manufacturer's Standard		Others		PF TAP		
Painting	Manufacturer's Standard		Others		Hole		
Remark	Please inform us if there are other specifications which is not stated in this order sheet, Otherwise it manufacture based on Manufacturer's Standard.				Inform us the type at load side in case of wound-rotor		
				Accessories	Induction motor		
Memo(Others)	Other specially specified test will be charged(Contact us)			Test	Routine Test & Report will be performed with free of change		

Korea

Head Office	75, Yulgok-ro, Jongno-gu, Seoul, Korea	Tel: 82-2-746-7419, 7960	Fax: 82-2-746-8452
Bundang Office	5F, 55, Bundang-ro, Bundang-gu, Seongnam-si	Tel: 82-31-8006-6655, 6735	Fax: 82-31-8006-6835
Ulsan Factory	1000 Bangeojinsunhwan-doro, Dong-gu, Ulsan, Korea	Tel: 82-52-202-8114	Fax: 82-52-202-8681

Branch Offices

Atlanta	6100 Atlantic Boulevard, 2nd FL., Norcross, GA30071, U.S.A	Tel: +1-678-823-7839	Fax: +1-678-823-7553
Osaka	5th Floor Nagahori Plaza Bldg. 2-4-8 Minami Senba, chuo-ku, Osaka 542-0081, Japan	Tel: +81-6-6261-5766~7	Fax: +81-6-6261-5818
Moscow	World Trade Center, Ent.3, #703, Krasnopresnenskaya Nab.12, Moscow, 123610, Russia	Tel: +7-495-258-1381	
Dubai	Unit 205, Emaar Square Building NO.4 Sheikh Zayed Road, Dubai 252458, U.A.E	Tel: +971-4-425-7995	Fax: +971-4-425-7996
Frankfurt	Mendelssohn strabe 55-59 Frankfurt 60325, Geramany	Tel: +49-69-4699-4988	
Bangkok	19th Floor, Unit 1908, Sathorn Square Office Tower, 98 North Sathorn Road, Silom, Bangrak, Bangkok 10500, Thailand	Tel: +66-02-115-7920	Fax: +66-2-115-7898

Subsidiaries

China	No.9, Xiandai Road, Xinba Scientific and Technologic Zone, Yangzhong, Jiangsu, P.R.C. Zip:212212, China	Tel: +86-511-8842-0666, 0500	Fax: +86-511-8842-0668, 0231
Bulgaria	41, Rojen Blvd., 1271 Sofia, Bulgaria	Tel: +359-2-803-3200, 3210, 3220	Fax: +359-2-803-3203, 3242
Alabama	Inc., 215 Folmar Parkway, Montgomery, AL 36105, USA	Tel: +1-334-481-2000	Fax: +1-334-481-2098
Arabia	Office number 404, 4th floor, Akaria-3 building, Olaya street, P.O Box 8072, Riyadh, 11482, Kindom of Saudi Arabia	Tel: +966-11-464-4696, 9366	Fax: +966-11-462-2352

R&D

Hungary	Hyundai Technologies Center Hungary Ltd., 1146, Budapest, Hermina ut 22, Hungary	Tel: +36-1-273-3733	Fax: +36-1-220-6708
Shanghai	Room 10102, Building 10, No.498, Guoshoujing Road, Pudong, Shanghai, China	Tel: +86-21-5013-3393 #108	Fax: +86-21-5013-3393 #105
Switzerland	Hardturmstrasse 135, CH-8005, Zurich, Switzerland	Tel: +41-44-527-0-56	