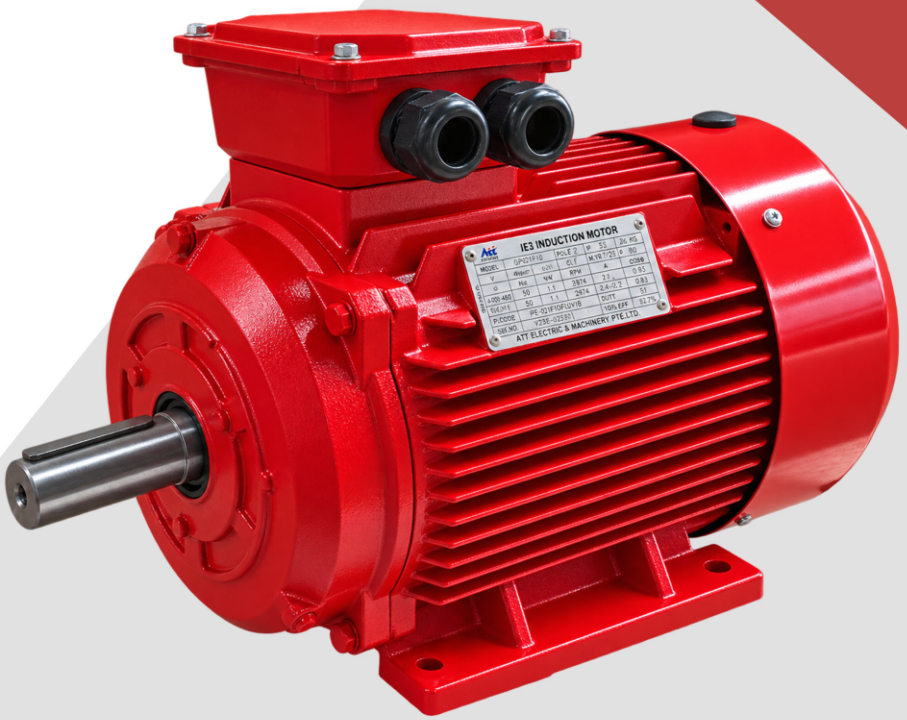
LISTED





UL IE3 Fire Pump Motor Series

In compliance with requirements stipulated by UL standards (UL 1004-1 & UL 1004-5)



ATT ELECTRIC & MACHINERY PTE LTD

UL LISTED FIRE PUMP MOTOR SERIES
Standard Features

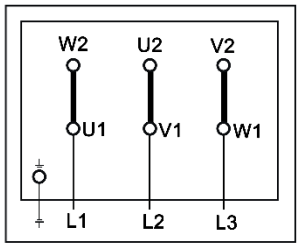
STANDARD SPECIFICATIONS AND FEATURES OF ATT UL LISTED FIRE PUMP MOTORS	
Item	**Standard Specifications**
Design standards	IEC 60034, IEC 60034-30-1, IEC 60072, IEC 60085, UL1004-1, UL1004-5
Type	Squirrel Cage Induction Motor
Rated Speed & Power	2 Pole: 11 ~ 315kW; 4 Pole: 5.5 ~ 400kW
Voltage and frequency	380-415V/3Ph/50Hz
Power conditions	±5% of rated voltage; ±2% of rated frequency
Protection	IP55
Method of starting	1. Full voltage direct on line 2. Soft starter 3. VFD 4. Star-Delta 5. Auto-transformer
Mounting	Horizontal foot and/or flange mounting: B3; B5; B14; B34; B35; V1
Stator insulation	Class F insulation
Service Factor	SF 1.15 at ambient temperature of 50°C
Environmental conditions	Place: Shadow, non-hazardous Ambient temperature: -20°C to 50°C Relative humidity: Less than 90% RH (non-condensation) Altitude: Less than 1,000m above sea level
Direction of rotation	Standard motors are suitable for operation in either direction of rotation. Direction of rotation of motor can be reversed by interchanging any two phases.
Test procedure	IEC and full voltage measuring starting operation
Shaft	Carbon steel, round shaft with key
Bearing	Motors of frame sizes 160 and below are fitted with life-lubricated bearings. Motors of frame sizes 180 and above are fitted with open bearings and grease nipple.
Painting	Phenolic rust-proof base plus lacquer surface finish
Nameplate	Stainless steel or aluminium
Grounding terminal	Set inside the terminal box
Fan Cover	Pressed Steel
Lubrication	Lithium Complex Grease

Motors can be customized in accordance to customers' requirements:

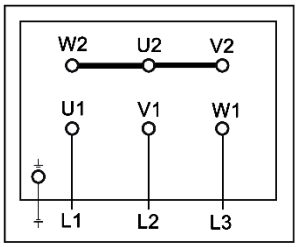
CUSTOMIZATION OPTIONS		
1. IP56/65/66	3. PTC thermistor/RTD	5. Sun canopy
2. Special paint finishing	4. Anti-condensation heater	6. Inverter duty motor in accordance with IEC 60034-25

UL LISTED FIRE PUMP MOTOR SERIES
Standard Features

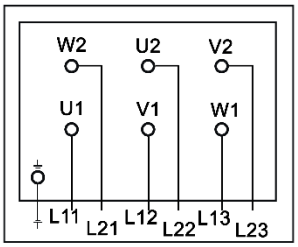
CONNECTION DIAGRAM



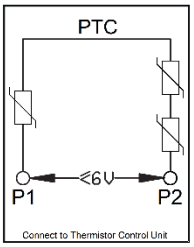
Delta Connection



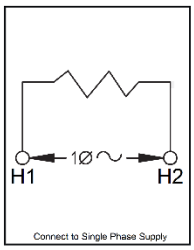
Star Connection



Star-Delta Connection



PTC Thermistor



Space Heater

BEARING SIZE

Frame	DE	NDE
132	6308	6308
160	6309	6309
180	6311	6311
200	6312	6312
225	6313	6313
250	6314	6314
280 2P	6314	6314
280 4P	6316	6316
315 2P	6317	6317
315 4P	6319	6319
355 2P	6319	6319
355 4P	6322	6322
400 4P	6326	6326

Note: 1. For differing bearing sizes, please refer to ATT.
2. For frame size 160 and below, all motors come with life-lubricated bearings.
3. All technical details are subject to change without prior notice.

UL LISTED FIRE PUMP MOTOR SERIES
Performance Data at 50Hz

Synchronous speed (2 Pole/3000RPM)

Model	Frame Size	Rated Output (kW)	Rated Speed (RPM)	Rated Current I_{FL} (A)			Efficiency η (%)			Power Factor COSθ	Rated Torque T_{FL} (Nm)	Locked Rotor Current @400V (A)	Locked Rotor Torque T_{LR}/T_{FL}	Break Down Torque T_M/T_{FL}	Pull-Up Torque T_P/T_{FL}	Weight (kg)
				380V	400V	415V	Full Load	¾ Load	½ Load							
GP020011	160M	11	2930	20.6	19.6	18.9	91.2	91.9	91.2	0.88	35.8	≤146	2.0	2.0	1.6	109
GP020015	160M	15	2930	28.0	26.6	25.6	91.9	91.6	89.9	0.88	48.9	≤184	2.0	2.0	1.6	119
GP0218F5	160L	18.5	2940	34.2	32.5	31.3	92.4	93.0	92.3	0.89	60.1	≤231	2.0	2.0	1.6	136
GP020022	180M	22	2940	40.5	38.5	37.1	92.7	93.0	92.4	0.89	71.5	≤275	2.0	2.0	1.6	172
GP020030	200L	30	2940	55.1	52.3	50.4	93.3	93.3	92.6	0.89	97.4	≤368	1.8	2.0	1.6	223
GP020037	200L	37	2945	67.4	64.0	61.7	93.7	93.9	93.3	0.89	120.0	≤458	1.8	2.0	1.6	242
GP020045	225M	45	2965	80.8	76.8	74.0	94.0	94.0	93.3	0.89	144.9	≤548	1.8	2.0	1.6	302
GP020055	250M	55	2965	98.4	93.5	90.1	94.3	93.8	92.3	0.89	177.1	≤675	1.8	2.0	1.6	382
GP020075	280S	75	2965	133.9	127.2	122.6	94.7	94.4	93.2	0.89	241.5	≤917	1.8	2.0	1.6	515
GP020090	280M	90	2965	163.3	155.1	149.5	95.0	94.7	93.6	0.91	289.9	≤1107	1.8	2.0	1.6	545
GP020110	315S	110	2985	198.2	188.3	181.5	95.2	94.8	93.4	0.91	351.9	≤1344	1.6	2.0	1.2	930
GP020132	315M	132	2985	234.1	222.4	214.4	95.4	94.9	93.4	0.91	422.3	≤1622	1.6	2.0	1.2	1140
GP020160	315L	160	2985	280.4	266.4	256.8	95.6	95.2	93.8	0.91	511.8	≤1966	1.6	2.0	1.2	1255
GP020185	315L	185	2985	323.2	307.0	295.9	95.8	95.5	94.4	0.92	591.8	≤2387	1.6	1.75	1.0	1310
GP020200	315L	200	2985	350.5	333.0	321.0	95.8	95.5	94.3	0.92	639.8	≤2569	1.6	1.75	1.0	1352
GP020220	355M	220	2985	383.2	364.0	350.8	95.8	95.4	94.2	0.92	703.8	≤2740	1.5	1.75	1.0	1694
GP020250	355M	250	2985	435.8	414.0	399.0	95.8	95.5	94.3	0.92	799.7	≤3221	1.5	1.75	1.0	1802
GP020280	355L	280	2985	488.4	464.0	447.2	95.8	95.6	94.5	0.92	895.7	≤3608	1.5	1.75	1.0	1920
GP020315	355L	315	2985	549.5	522.0	503.1	95.8	95.6	94.6	0.92	1007.7	≤4058	1.5	1.75	1.0	2017

Note:
1. The data above is based on 400V design, 380V and 415V data is the reference value.
2. Tolerance according to IEC60034-1; Current tolerance: ±3%.
3. Breakdown & locked rotor torques are shown as average expected voltages.
4. Efficiency, power factor, speed and torque are the same for other voltages.
5. Noise according to IEC 60034-9.
6. All technical details are subject to change without prior notice.

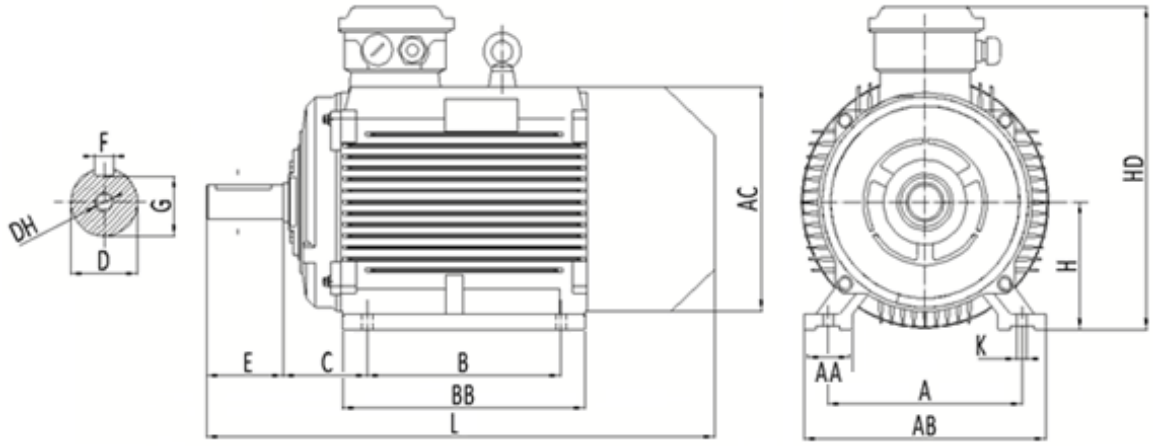
UL LISTED FIRE PUMP MOTOR SERIES
Performance Data at 50Hz

Synchronous speed (4 Pole/1500RPM)

Model	Frame Size	Rated Output (kW)	Rated Speed (RPM)	Rated Current I_{FL} (A)			Efficiency η (%)			Power Factor COSθ	Rated Torque T_{FL} (Nm)	Locked Rotor Current @400V (A)	Locked Rotor Torque T_{LR}/T_{FL}	Break Down Torque T_M/T_{FL}	Pull-Up Torque T_P/T_{FL}	Weight (kg)
				380V	400V	415V	Full Load	¾ Load	½ Load							
GP045F50	132S	5.5	1455	11.4	10.8	10.4	89.6	90.6	89.6	0.82	36.1	≤79.8	2.00	2.00	1.60	62
GP047F50	132M	7.5	1460	15.0	14.3	13.7	90.4	91.0	90.2	0.84	49.1	≤101.7	2.00	2.00	1.60	74
GP040011	160M	11	1460	21.8	20.7	19.9	91.4	91.7	90.6	0.84	71.9	≤146	2.00	2.00	1.60	109
GP040015	160L	15	1460	29.5	28.0	27.0	92.1	92.3	91.3	0.84	98.1	≤184	2.00	2.00	1.60	119
GP0418F5	180M	18.5	1470	35.3	33.5	32.3	92.6	92.8	92.1	0.86	120.2	≤231	2.00	2.00	1.60	152
GP040022	180L	22	1470	41.8	39.7	38.3	93.0	93.2	92.4	0.86	142.9	≤275	2.00	2.00	1.60	172
GP040030	200L	30	1470	56.6	53.8	51.9	93.6	93.7	93.0	0.86	194.9	≤367	1.80	2.00	1.60	223
GP040037	225S	37	1480	68.8	65.4	63.0	93.9	94.0	93.0	0.87	238.7	≤458	1.80	2.00	1.60	242
GP040045	225M	45	1480	83.4	79.3	76.4	94.2	94.2	93.1	0.87	290.3	≤548	1.80	2.00	1.60	302
GP040055	250M	55	1480	101.5	96.5	93.0	94.6	94.5	93.5	0.87	354.9	≤685	1.80	2.00	1.60	382
GP040075	280S	75	1485	138	131	126	95.0	94.8	93.8	0.87	482.3	≤916	1.80	2.00	1.60	515
GP040090	280M	90	1485	165	157	151	95.2	94.9	93.8	0.87	578.7	≤1146	1.80	2.00	1.60	545
GP040110	315S	110	1485	199	189	182	95.4	95.0	94.0	0.88	707.3	≤1344	1.60	2.00	1.20	930
GP040132	315M	132	1485	238	226	218	95.6	95.4	94.4	0.88	848.8	≤1622	1.60	2.00	1.20	1020
GP040160	315L	160	1485	285	271	261	95.8	95.6	94.5	0.89	1028.8	≤1966	1.60	2.00	1.20	1110
GP040185	315L	185	1485	329	313	302	95.8	95.6	94.5	0.89	1189.6	≤2387	1.60	1.75	1.00	1200
GP040200	315L	200	1485	356	338	326	96.0	95.8	94.6	0.89	1286.1	≤2569	1.60	1.75	1.00	1285
GP040220	315L	220	1485	392	372	359	96.0	95.8	94.6	0.89	1414.7	≤2740	1.50	1.75	1.00	1350
GP040250	355M	250	1490	440	418	403	96.0	95.8	94.8	0.90	1602.2	≤3221	1.50	1.75	1.00	1700
GP040280	355L	280	1490	493	468	451	96.0	95.8	94.8	0.90	1794.4	≤3608	1.50	1.75	1.00	1750
GP040315	355L	315	1490	554	526	507	96.0	95.8	94.8	0.90	2018.7	≤3221	1.50	1.75	1.00	1845
GP040355	355L	355	1490	624	593	572	96.0	95.8	94.8	0.90	2275.1	≤4569	1.50	1.75	1.00	1920
GP040400	400L	400	1490	703	668	644	96.0	95.9	95.2	0.90	2563.5	≤6455	1.40	1.75	0.75	3200

Note:
1. The data above is based on 400V design, 380V and 415V data is the reference value.
2. Tolerance according to IEC60034-1; Current tolerance: ±3%.
3. Breakdown & locked rotor torques are shown as average expected voltages.
4. Efficiency, power factor, speed and torque are the same for other voltages.
5. Noise according to IEC 60034-9.
6. All technical details are subject to change without prior notice.

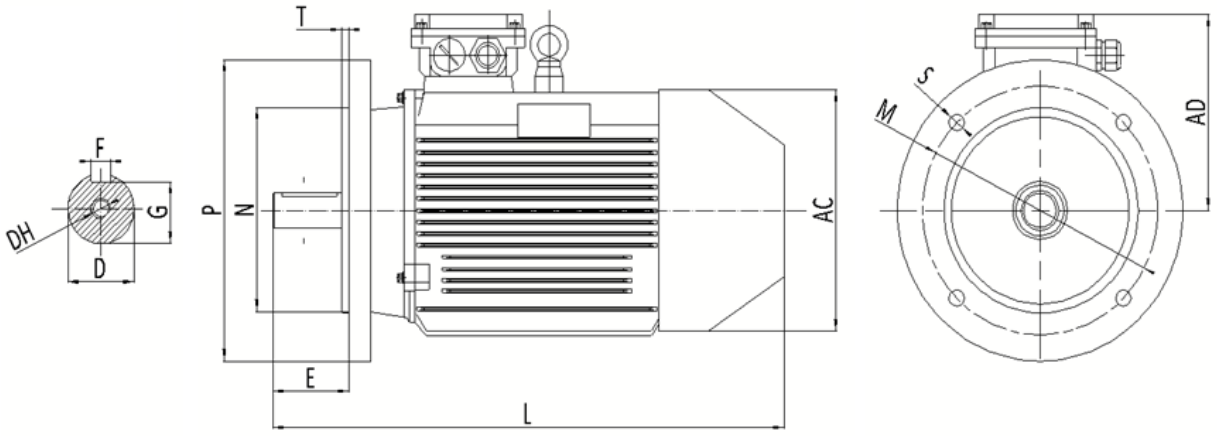
UL FIRE PUMP MOTOR SERIES
B3 Mechanical Data



Frame Size	Pole	Mounting Dimensions (mm)										Overall Dimensions (mm)					
		A	B	C	D	E	F	G	H	K	DH	AA	AB	AC	BB	HD	L
132S	4	216	140	89	38	80	10	33.0	132	12	M12X30	50	262	258	178	340	470
132M	4	216	178	89	38	80	10	33.0	132	12	M12X30	50	262	258	216	340	510
160M	2, 4	254	210	108	42	110	12	37.0	160	15	M16X36	65	313	313	256	414	610
160L	2. 4	254	254	108	42	110	12	37.0	160	15	M16X36	65	313	313	300	414	655
180M	2, 4	279	241	121	48	110	14	42.5	180	15	M16X36	70	345	354	300	450	690
180L	4	279	279	121	48	110	14	42.5	180	15	M16X36	70	345	354	340	450	730
200L	2, 4	318	305	133	55	110	16	49.0	200	19	M20X42	65	385	396	355	508	760
225M	2	356	311	149	55	110	16	49.0	225	19	M20X42	75	430	442	390	555	805
225M	4	356	311	149	60	110	16	49.0	225	19	M20X42	75	430	442	390	555	835
225S	4	356	286	149	60	140	18	53.0	225	19	M20X42	75	430	442	363	555	810
250M	2	406	349	168	60	140	18	53.0	250	24	M20X42	80	490	483	445	615	930
250M	4	406	349	168	65	140	18	58.0	250	24	M20X42	80	490	483	445	615	930
280S	2	457	368	190	65	140	18	58.0	280	24	M20X42	80	535	545	454	675	985
280S	4	457	368	190	75	140	20	67.5	280	24	M20X42	80	535	545	454	675	985
280M	2	457	419	190	65	140	18	58.0	280	24	M20X42	80	535	545	503	675	1035
280M	4	457	419	190	75	140	20	67.5	280	24	M20X42	80	535	545	503	675	1035
315S	2	508	406	216	65	140	18	58.0	315	28	M20X42	120	625	618	565	850	1190
315S	4	508	406	216	80	170	22	71.0	315	28	M20X42	120	625	618	565	850	1220
315M	2	508	457	216	65	140	18	58.0	315	28	M20X42	120	625	618	675	850	1300
315M	4	508	457	216	80	170	22	71.0	315	28	M20X42	120	625	618	675	850	1330
315L	2	508	508	216	65	140	18	58.0	315	28	M20X42	120	625	618	675	850	1300
315L	4	508	508	216	80	140	18	58.0	315	28	M20X42	120	625	618	675	850	1330
355M	2	610	560	254	75	140	20	67.5	610	28	M24X50	115	725	696	750	1000	1525
355M	4	610	630	254	95	170	25	86.0	610	28	M24X50	115	725	696	750	1000	1555
355L	2	610	560	254	75	140	20	67.5	355	28	M24X50	115	725	696	750	1000	1525
355L	4	610	630	254	95	170	25	86.0	355	28	M24X50	115	725	696	750	1000	1555
400L	4	686	710	280	120	210	32	109	400	35	M24X50	125	810	840	1100	1085	1955

All technical details are subject to change without any prior notice.

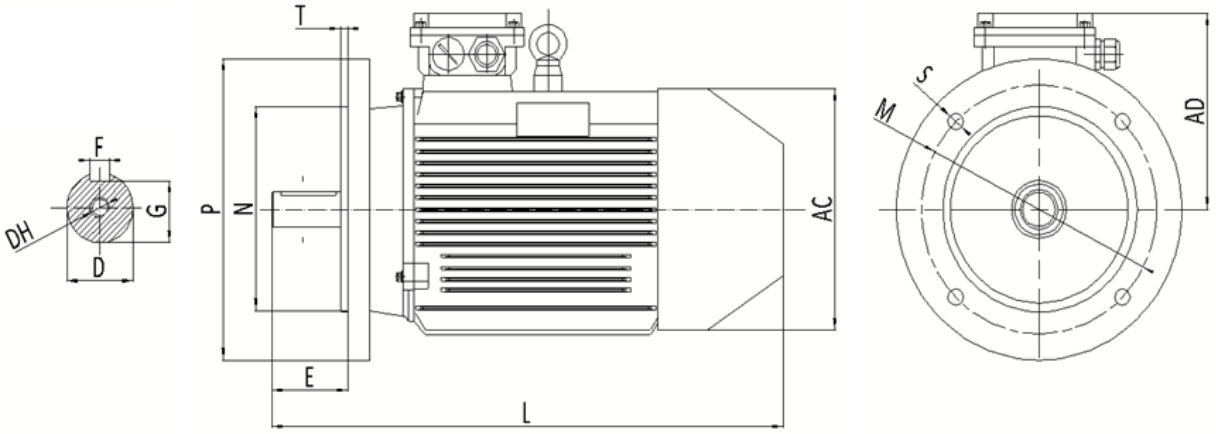
UL FIRE PUMP MOTOR SERIES
B5 Mechanical Data



Frame Size	Pole	Mounting Dimensions (mm)										Overall Dimensions (mm)		
		D	E	F	G	M	N	P	S	T	DH	AC	AD	L
132S	4	38	80	10	33.0	265	230	300	4-Φ15	4	M12X30	258	349	470
132M	4	38	80	10	33.0	265	230	300	4-Φ15	4	M12X30	258	349	510
160M	2, 4	42	110	12	37.0	300	250	350	4-Φ19	5	M16X36	313	429	610
160L	2, 4	42	110	12	37.0	300	250	350	4-Φ19	5	M16X36	313	429	655
180M	2, 4	48	110	14	42.5	300	250	350	4-Φ19	5	M16X36	354	442	690
180L	2, 4	48	110	14	42.5	300	250	350	4-Φ19	5	M16X36	354	442	730
200L	2, 4	55	110	16	49.0	350	300	400	4-Φ19	5	M20X42	396	505	760
225S	4	60	140	18	53.0	400	350	450	8-Φ19	5	M20X42	442	545	810
225M	2	55	110	16	49.0	400	350	450	8-Φ19	5	M20X42	442	545	805
225M	4	60	140	18	53.0	400	350	450	8-Φ19	5	M20X42	442	545	835
250M	2	60	140	18	53.0	500	450	550	8-Φ19	5	M20X42	483	615	930
250M	4	65	140	18	58.0	500	450	550	8-Φ19	5	M20X42	483	615	930
280S	2	65	140	18	58.0	500	450	550	8-Φ19	5	M20X42	545	660	985
280S	4	75	140	20	67.5	500	450	550	8-Φ19	5	M20X42	545	660	985
280M	2	65	140	18	58.0	500	450	550	8-Φ19	5	M20X42	545	660	1035
280M	4	75	140	20	67.5	500	450	550	8-Φ19	5	M20X42	545	660	1035

All technical details are subject to change without any prior notice.

UL FIRE PUMP MOTOR SERIES
V1 Mechanical Data



Frame Size	Pole	Mounting Dimensions (mm)										Overall Dimensions (mm)		
		D	E	F	G	M	N	P	S	T	DH	AC	AD	L
132S	4	38	80	10	33.0	265	230	300	4-Φ15	4	M12X30	258	349	470
132M	4	38	80	10	33.0	265	230	300	4-Φ15	4	M12X30	258	349	510
160M	2, 4	42	110	12	37.0	300	250	350	4-Φ19	5	M16X36	313	429	610
160L	2, 4	42	110	12	37.0	300	250	350	4-Φ19	5	M16X36	313	429	655
180M	2, 4	48	110	14	42.5	300	250	350	4-Φ19	5	M16X36	354	442	690
180L	2, 4	48	110	14	42.5	300	250	350	4-Φ19	5	M16X36	354	442	730
200L	2, 4	55	110	16	49.0	350	300	400	4-Φ19	5	M20X42	396	505	760
225S	4	60	140	18	53.0	400	350	450	8-Φ19	5	M20X42	442	545	810
225M	2	55	110	16	49.0	400	350	450	8-Φ19	5	M20X42	442	545	805
225M	4	60	140	18	53.0	400	350	450	8-Φ19	5	M20X42	442	545	835
250M	2	60	140	18	53.0	500	450	550	8-Φ19	5	M20X42	483	615	930
250M	4	65	140	18	58.0	500	450	550	8-Φ19	5	M20X42	483	615	930
280S	2	65	140	18	58.0	500	450	550	8-Φ19	5	M20X42	545	660	985
280S	4	75	140	20	67.5	500	450	550	8-Φ19	5	M20X42	545	660	985
280M	2	65	140	18	58.0	500	450	550	8-Φ19	5	M20X42	545	660	1035
280M	4	75	140	20	67.5	500	450	550	8-Φ19	5	M20X42	545	660	1035
315S	2	65	140	18	58.0	600	550	660	8-Φ24	6	M20X42	618	865	1190
315S	4	80	170	22	71.0	600	550	660	8-Φ24	6	M20X42	618	865	1220
315M	2	65	140	18	58.0	600	550	660	8-Φ24	6	M20X42	618	865	1300
315M	4	80	170	22	71.0	600	550	660	8-Φ24	6	M20X42	618	865	1330
315L	2	65	140	18	58.0	600	550	660	8-Φ24	6	M20X42	618	865	1300
315L	4	80	170	22	71.0	600	550	660	8-Φ24	6	M20X42	618	865	1330
355M	2	75	140	20	67.5	740	680	800	8-Φ24	6	M24X50	696	1045	1525
355M	4	95	170	25	86.0	740	680	800	8-Φ24	6	M24X50	696	1045	1555
355L	2	75	140	20	67.5	740	680	800	8-Φ24	6	M24X50	696	1045	1525
355L	4	95	170	25	86.0	740	680	800	8-Φ24	6	M24X50	696	1045	1555
400L	4	120	210	32	109	940	880	1000	8-Φ28	6	M24X50	840	1185	1955

All technical details are subject to change without any prior notice.

Certificate of Compliance

Certificate Number:
EX29899

Report Reference:
EX29899-20260310

Issue Date:
2026-AUGUST-17

Issued to:

ATT Electric & Machinery Pte Ltd
6 Fifth Lok Yang Road 629757
Singapore

This certificate confirms that representative samples of:

FIRE PUMP MOTORS (QXZF)

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

UL 1004-1 - Rotating Electrical Machines - General Requirements.
UL 1004-5 - Fire Pump Motors

Additional Information:
See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

David Piecuch
UL Mark Certification Program Owner

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CERTIFICATE OF COMPLIANCE

Certificate number(s): EX29899
Report reference: EX29899-20260310
Issue Date: 2026- AUGUST -17

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Products Covered	Product Designation	Nomenclature
	GP020011	
	GP020015	
	GP020022	
	GP020030	
	GP020037	
	GP020045	
	GP020055	
	GP020075	
	GP020090	
	GP020110	
	GP020132	
	GP020160	
	GP020185	
	GP020200	
	GP020220	
	GP020250	
	GP020280	
	GP020315	
	GP0218F5	
	GP045F50	
	GP047F50	
	GP040011	
	GP040015	
	GP0418F5	
	GP040022	
	GP040030	
	GP040037	
	GP040045	
	GP040055	
	GP040075	
	GP040090	
	GP040110	
	GP040132	
	GP040160	
	GP040185	
	GP040200	
	GP040220	
	GP040250	
	GP040280	
	GP040315	
	GP040355	
	GP040400	

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