

ABB BALDOR RELIANCE III

Customer information packet

FDL3612TM

5HP, 1725RPM, 1PH, 60HZ, 184T, 3646LC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	23.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	23.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	M
Type	AC
Mech. spec.	36Q167
Base	
Status	PRD/A
Elec. spec.	36WGW279
Layout	36LYQ167
Eff. date	06-01-2026
CD Diagram	CD0152
Poles	04
Leads	2#10 A PH,3#16 B&J
Proprietary	False
Created date	12-12-2013

KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Cap Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.05 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1725 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1280L									
CAT.NO.	FDL3612TM								
SPEC.	36Q167W279G1								
HP	5								
VOLTS	230								
AMP	23								
RPM	1725								
FRAME	184T		HZ	60		PH		1	
SER.F.	1.00		CODE	J		DES	L	CL	F
NEMA-NOM-EFF	80		PF	88					
RATING	40C AMB-CONT								
CC									
DE	6206		ODE	6205					
ENCL	TEFC		SN						

Parts List

Part number	Description	Quantity
SA274233	SA 36Q167W279G1	1.000 ea
RA260820	RA 36Q167W279G1	1.000 ea
OC3030F11SP	CAPACITOR 30 MFD 370 VAC	1.000 ea
TPLED1027SP	THERMAL 1PH 1.5 MAN REF LED989 TDR #5817	1.000 ea
EC1216C06SP	ELEC CAP, 216-259 MFD, 250V, 2.06D X 4.	2.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3805A06	CAPAC BOX, DIECAST W/CAST LEAD & THERMAL	1.000 ea
37GS3002	GASKET, CAPACITOR BOX	1.000 ea
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	4.000 ea
HA2001A09	SPACER, .218 ID X .937 LG	2.000 ea
RM1015	BOOT FOR 1.50 MANUAL THERMALS	1.000 ea
51XN1032A28	10-32 X 1 3/4 HX WS SL SR	2.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP3104A02	FREP MACH W/O GRSR, RAISED FH PADS	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
HA6003A16	CLAMP, CAPACITOR SIZE 8 1/4 X 1 1/2 PL	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HA1005A03SP	SLINGER, OD 1.750, ID .938, 205 BRG	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3100A45	SPL PU ENDPLATE FOR SEAL, NO GREASER	1.000 ea
HW4600H12	SEAL 1.156 X 1.874 X 0.250 SINGLE LIP DB	1.000 ea
HW4600B36SP	V-RING SLINGER 1.188 X 1.380 X .24 VITON	1.000 ea
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
36FN3000A01SP	EXFN, PLASTIC, 7.00 OD, .912 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
36FH4009A107	IEC FH NO GREASER W/O DIMPLES NOTCH @9,	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
37CB4502	CAPAC BOX LID, STAMPED PLATED	1.000 ea

37GS3003SP	GASKET, CAPAC BOX LID X	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	6.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1087	LABEL,MANUAL RESET (ROLL LABEL)	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	6.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MG1025C02	WILKOFASG SG, 787.105, TAN	0.022 ga
TP5059	GENERIC WELDED THERMAL, 7" LEAD KIT	1.000 ea
SP5172A11	37 TYPE LC TORQ STAT SWITCH LEAD ASSEMBL	1.000 ea
LC0002	CONNECTION LABEL	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP1280L	ALUM FARM DUTY UL CC THERMAL	1.000 ea
GOPA1000	PKG GRP, PRINT PK1026A06	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000002	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 10712

Typical performance - not guaranteed values

Winding: 36GW279-R001			Type: 3646LC		Enclosure: TEFC	
Nameplate Data			230 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		5	Full Load Torque		15 LB-FT	
Volts		230	Start Configuration		direct on line	
Full Load Amps		23	Breakdown Torque		43 LB-FT	
R.P.M.		1725	Pull-up Torque		36 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		46 LB-FT
NEMA Design Code		J	Starting Current		163 A	
Service Factor (S.F.)		1	No-load Current		10 A	
NEMA Nom. Eff.	80	Power Factor	88	Line-line Res. @ 25°C		0.353 Ω A Ph 2.23 Ω B Ph
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		97°C	

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	54	71	85	89	89	91
Efficiency	65	76.1	81.5	80.8	79.3	75.5
Speed	1786	1769	1750	1732	1713	1687
Line amperes	12.7	14	18.5	22.6	27.3	33.5

ABB Motors and Mechanical Inc.

WINDING # 36WG279

Typical performance - not guaranteed values.

5 HP 1 PH 60 HZ 1725 RPM 230 V 3646LC

TORQUES (LB-FT) : PO=43 PU=36 LR=46 LRA=163





