

ABB BALDOR RELIANCE III

Customer information packet

FDL3611M

2HP, 1725RPM, 1PH, 60HZ, 184, 3634L, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 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	12.400 A @ 230.0 V 24.800 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
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	12.4 a

Part Detail

Revision	P
Type	AC
Mech. spec.	36Q169
Base	
Status	PRD/A
Elec. spec.	36WGX416
Layout	36LYQ169
Eff. date	11-27-2024
CD Diagram	CD0008
Poles	04
Leads	4#14 A&J,2#16 B PH,1#10 #4TH
Proprietary	False
Created date	12-12-2013

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A&J
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3634L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.67 IN
Power Factor	73
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	0.875 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.	FDL3611M								
SPEC.	36Q169X416G1								
HP	2								
VOLTS	115/230								
AMP	24.8/12.4								
RPM	1725								
FRAME	184		HZ	60		PH		1	
SER.F.	1.00		CODE	L		DES	L	CL	F
NEMA-NOM-EFF	74		PF	73					
RATING	40C AMB-CONT								
CC									
DE	6206		ODE	6205					
ENCL	TEFC		SN						

Parts List

Part number	Description	Quantity
SA274231	SA 36Q169X416G1	1.000 ea
RA260818	RA 36Q169X416G1	1.000 ea
TPCRD4755SP	THERMAL 1PH 1.0 MAN REF CRD4708 TDR #581	1.000 ea
EC1430A03	ELEC CAP 115V 1.8 X 3.3 X	2.000 ea
36CB3004A36	36 CB 1.09 @ 6, 1.00 MTO W/BOOT @ 3	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HA6015A11	EARED 1" THERMAL RETAINER (PLATED)	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
RM1014A01SP	BUTYL RUB.THRM COV. (MENA)	1.000 ea
51XB1214A10	12-14 X 5/8HX WS SL SR TYBX	2.000 ea
36EP3104A02	FREP MACH W/O GRSR, RAISED FH PADS	1.000 ea
HA7010A01	CAPACITOR RETENTION CLAMP, 6.562 LONG	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
36CB3800SP	CAPACITOR COVER, CAST	1.000 ea
36GS3000	GASKET, CAPACITOR COVER LEXIDE	1.000 ea
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	2.000 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
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
36FH4009A101	IEC FH NO GREASER, W/PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HA1005A03SP	SLINGER, OD 1.750, ID .938, 205 BRG	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea

HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
LB1087	LABEL,MANUAL RESET (ROLL LABEL)	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	4.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
36FN3000A01SP	EXFN, PLASTIC, 7.00 OD, .912 ID	1.000 ea
MG1025C02	WILKOFAST SG, 787.105, TAN	0.022 ga
HA3101A25	THRUBOLT 1/4-20 X 11.000 OHIO ROD	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
TP5059	GENERIC WELDED THERMAL, 7" LEAD KIT	1.000 ea
SP5172A01	37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY	1.000 ea
NS2500A02	INSULATOR, MAN THER PROT	1.000 ea
LC0008	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
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000002	ZRTG PE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
36-3301FD	C FACE KIT FARM DUTY 182-4TC ENCL, 6206	P1

AC Induction Motor Performance Data

Record # 61427

Typical performance - not guaranteed values

Winding: 36WGX416-R002			Type: 3634L		Enclosure: TEFC		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2	Full Load Torque		6 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		28/14	Breakdown Torque		16 LB-FT		
R.P.M.		1725	Pull-up Torque		15 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		24 LB-FT	
NEMA Design Code		L	KVA Code	J	Starting Current		75 A
Service Factor (S.F.)		1	No-load Current		8.55 A		
NEMA Nom. Eff.		75	Power Factor	67	Line-line Res. @ 25°C		0.732 Ω A Ph 0.396 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		78°C	

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	34	49	61	70	75	79
Efficiency	53.8	68.3	74.2	76.8	77.6	77.4
Speed	1788	1778	1767	1756	1743	1729
Line amperes	8.98	9.65	10.75	12.15	13.85	15.85

ABB Motors and Mechanical Inc.

WINDING # 36WGx416

Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 1725 RPM 230 V 3634L

TORQUES (LB-FT) : PO=16 PU=15 LR=24 LRA=75





