

ABB BALDOR RELIANCE III

Customer information packet

EMVM3710D

7.5HP, 1770RPM, 3PH, 60HZ, D132SD, 3738M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	D132SD
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CE CSA EEV NEMA PREMIUM UR WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	9.500 A @ 460.0 V 20.000 A @ 208.0 V 19.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	E
Type	AC
Mech. spec.	37E651
Base	
Status	PRD/A
Elec. spec.	37WGL864
Layout	37LYE651
Eff. date	08-04-2025
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	02-02-2021

Frame Prefix	D
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Motor Type	3738M
Mounting Arrangement	B5
Number of Poles	4
Overall Length	20.48 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	D-Flange
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.497 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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	None
Winding Thermal 2	None

Nameplate

NP2672L									
CAT.NO.	EMVM3710D								
SPEC.	37E651L864G1								
IEC FRAME	D132SD		KW		7.5HP/5.6KW				
VOLTS	230/460								
AMP	19/9.5								
RPM	1770			ENCL			TEFC		
HZ	60		PH		3		CL		F
SER.F.	1.15		DES		A		CODE		J
NEMA-NOM-EFF	91.7	I.P.	54						
RATING	40C AMB-CONT								
CC	010A		USABLE AT 208V						N/A
DE	6309	ODE	6206						
SER. #									
	SFA 21.6/10.8								

Parts List

Part number	Description	Quantity
SA390601	SA 37E651L864G1	1.000 ea
RA381053	RA 37E651L864G1	1.000 ea
37FN3002C01	EXFN, PLASTIC, 6.00 OD, 1.155 ID	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3004	37 CB CASTING W/1.09 LEAD HOLE @ 6:00	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 ea
51XW2520A12	SCREW, HEX WS SLT, ZN	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37EP3101A01	FR ENDPLATE, FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
29EP1901A03	PU ENDPLATE, MACH	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4600A27	SEAL 1.750 X 2.441 X 0.313 SINGLE LIP	1.000 ea
10XN2520A32	1/4 X 2 HEX HEAD CAP SCR, GRADE 2	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
07FH4007SP	PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008	37 GS FOR CB LID - LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2505B18	KEY, 8 X 10 MM X 2.00 LONG	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.028 ga
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 ea
LC0005	CONN.DIA., TY M, 9-LD, DUAL VOLT, REVERSING	1.000 ea
NP2672L	SS SUPER-E IEC UL CSA PREM CC	1.000 ea

37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 85467

Preliminary Data Sheet

Winding: 37WGL864-R001				Type: 3738M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5		Full Load Torque		22.2 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		19.0/9.5		Breakdown Torque		69.8 LB-FT	
R.P.M.		1770		Pull-up Torque		31.5 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		41 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		70.7 A	
Service Factor (S.F.)		1.15		No-load Current		4.32 A	
NEMA Nom. Eff.		91.7	Power Factor	Line-line Res. @ 25°C		1.48 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		64°C	
S.F. Amps		21.4/10.7		Temp. Rise @ S.F. Load		84°C	
				Locked-rotor Power Factor		41.9	
				Rotor inertia		0.934 lb-ft²	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	80	83	84	83
Efficiency	87.1	91.4	92	91.7	90.7	89.6	90.7
Speed	1793	1786	1778	1770	1760	1750	1761
Line amperes	4.83	6.03	7.64	9.5	11.6	13.9	10.7

ABB Motors and Mechanical Inc.

WINDING # 37WGL864

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3738M

TORQUES (LB-FT): PO=69.8 PU=31.5 LR=41 LRA=70.7



