

ABB BALDOR RELIANCE III

Customer information packet

EBM3730TY

7.5HP, 1770RPM, 3PH, 60HZ, 213T, 3736M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213T
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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV
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	18.800 A @ 230.0 V 21.000 A @ 208.0 V 9.400 A @ 460.0 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
Front Face Code	Brake Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	N
Type	AC
Mech. spec.	37A021
Base	
Status	PRD/A
Elec. spec.	37WGT859
Layout	37LYA021
Eff. date	05-01-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	10-12-2015

High Voltage Full Load Amps	9.4 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3736M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.01 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
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

NP1259L											
CAT.NO.	EBM3730TY										
SPEC.	37A021T859G1										
HP	7.5										
VOLTS	230/460										
AMP	18.8/9.4										
RPM	1770										
FRAME	213T		HZ	60				PH	3		
SER.F.	1.15	CODE	J	DES	A	CL	F				
NEMA-NOM-EFF	91.7	PF	81								
RATING	40C AMB-CONT										
CC	010A										
DE	6307		ODE	6306							
ENCL	TEFC	SN									

Parts List

Part number	Description	Quantity
SA308936	SA 37A021T859G1	1.000 ea
RA296273	RA 37A021T859G1	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37EP1301A01	STD FACE MTD ENDPLATE, BRAKE MTG	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A07	W2816-030 WVY WASHER (WB)	1.000 ea
37EP3100A03	FR/PU ENDPLATE, MACH	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
84XN5013J12	1/2 13X3/4 HX SOCK, BK OX	4.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
HW2500A16	KEY USA #606, WOODRUFF	1.000 ea
07FH4007A25	IEC FH W/GRSR, DRAIN & 1.62 DIA. SHAFT H	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
HW2501F21	KEY, 5/16 SQ X 2.375	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
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HW2501E10	KEY, 1/4 SQ X 1.000	1.000 ea
37FN3002A05	EXFN, PLASTIC, 9.00 OD, 1.380 ID	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.028 ga
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 ea
87BK3100EQF	87BK31000QF W/BR2701E01	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea

LB1404	BRAKE CONNECTION LABEL	1.000 ea
NP1259L	ALUM SUPER-E UL CC NEMA PREMIUM A60	1.000 ea
37PA1039	PALLET PACK GROUP, BLANK PK1148	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

ABB Motors and Mechanical Inc.

WINDING # 37WGT859

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3736M

TORQUES (LB-FT): PO=69.2 PU=36.1 LR=41.1 LRA=70.1





