

ABB BALDOR RELIANCE III

Customer information packet

CEM3215T

2HP, 1165RPM, 3PH, 60HZ, 184TC, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	184TC
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM
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	3.400 A @ 460.0 V 6.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	3.4 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS947
Layout	36LYB102
Eff. date	05-01-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	02-24-2020

IP Rating	NONE
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3636M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	16.50 IN
Power Factor	63
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1165 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.	CEM3215T										
SPEC.	36-0000-0311										
HP	2										
VOLTS	230/460										
AMP	6.8/3.4										
RPM	1165										
FRAME	184TC		HZ	60				PH	3		
SER.F.	1.15	CODE	L	DES	B	CL	F				
NEMA-NOM-EFF	87.5	PF	63								
RATING	40C AMB-CONT										
CC	010A										
DE	6206		ODE	6205							
ENCL	OPSB	SN									

Parts List

Part number	Description	Quantity
SA379358	SA 36-0000-0311	1.000 ea
RA369352	RA 36-0000-0311	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1259L	ALUM SUPER-E UL CC NEMA PREMIUM A60	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 ea
36EP3204B00	MASTER ODE,205 BRG,GRSR	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
36EP3403A03	PU E.P., TC, OPEN, 206 BRG, LESS TIGHT S	1.000 ea
10XN2520A28	1/4-20X 1 3/4 HEX HD	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
36AD2004B01	BAFFLE PLATE,MOD 36-SLTD BAND MTRS	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.022 ga
36AD2004B01	BAFFLE PLATE,MOD 36-SLTD BAND MTRS	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
HW2501E19	STD SQUARE KEY .25 SQUARE X 2.125 LONG	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 53374

Typical performance - not guaranteed values

Winding: 36WGS947-R006			Type: 3636M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2	Full Load Torque		9.01 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		6.8/3.4	Breakdown Torque		35.3 LB-FT		
R.P.M.		1165	Pull-up Torque		19.7 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		25.1 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		23.9 A
Service Factor (S.F.)		1.15		No-load Current		2.26 A	
NEMA Nom. Eff.		87.5	Power Factor	63	Line-line Res. @ 25°C		4.9075 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		24°C	
S.F. Amps				Temp. Rise @ S.F. Load		28°C	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	43	55	62	68	72	66
Efficiency	77.9	85.5	87.6	88	87.6	86.8	87.8
Speed	1193.3	1187	1180.2	1173.2	1165.2	1155.9	1168
Line amperes	2.37	2.62	2.99	3.43	3.96	4.54	3.75

ABB Motors and Mechanical Inc.

WINDING # 36WGS947

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1165 RPM 460 V 3636M

TORQUES (LB-FT): PO=35.3 PU=19.7 LR=25.1 LRA=23.9



