

ABB BALDOR RELIANCE III

Customer information packet

JMEWDM3545T

1HP, 3450RPM, 3PH, 60HZ, 143JM, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143JM
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
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	1.400 A @ 460.0 V 2.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	1.4 a

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGS921
Layout	35LYSS629
Eff. date	01-17-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	12-09-2019

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.44 IN
Power Factor	82
Product Family	Wash Down
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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

NP1669L									
CAT.NO.	JMEWDM3545T								
SPEC.	35-0000-0480								
HP	1								
VOLTS	230/460								
AMP	2.8/1.4								
RPM	3450								
FRAME	143JM		HZ	60			PH	3	
SER.F.	1.15	CODE	L	DES	B	CLASS	F		
NEMA-NOM-EFF	84	PF	82						
RATING	40C AMB-CONT								
CC	010A								
DE	6206		ODE	6203					
ENCL	TEFC	SN							
BLANK	20:1CT, 20:1VT,1.00SF								

Parts List

Part number	Description	Quantity
SA377319	SA 35-0000-0480	1.000 ea
RA367235	RA 35-0000-0480	1.000 ea
LB1164	LABEL,WARNING AND DRAIN	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1669L	SS WD SUPER-E UL PREM REV MTG	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
35FH4005A32	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
51XB0818A12	8-18X3/4 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3100S11	THRUBOLT - 10-32 X 8.500 W	4.000 ea
35EP3122B00W	MASTER ODE,203 BRG,.683SH,.125NPT DRNS,F	1.000 ea
HW4600B39SP	V-RING SLINGER 0.550 X 0.790 X .18 VITON	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3401T07MW	PU EP FOR SEAL W/"O" DRILLS & NO GRS, W/	1.000 ea
HW4600B36SP	V-RING SLINGER 1.188 X 1.380 X .24 VITON	1.000 ea
HW4600B50	SEAL 1.156 X 1.874 X 0.250 SINGLE LIP DB	1.000 ea
10XN1032S16	10-32X1 HEX HEAD S STEEL	2.000 ea
35CB3010A01G	35 CB .75 NPT @ 6:00 (GRAY)	1.000 ea
35GS1039	05 MOLDED GASKET W/LIP, 1.12 LEAD HOLE,	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
35CB4522	35 LIPPED CB LID PRIMED	1.000 ea
35GS1030A02	35 GS FOR CB LID - WHITE NEOPRENE	1.000 ea
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
MG1025W01	WILKOFAS, 781.01, SIGNAL WHITE #9003	0.022 ga
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea

HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 ea
MG1025Z02	ACTIVATOR WILKOFAS 060.02HF 55 GALLON	0.022 ga
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 54971

Typical performance - not guaranteed values

Winding: 35WGS921-R022			Type: 3516M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1	Full Load Torque			1.5 LB-FT
Volts		230/460	Start Configuration			direct on line
Full Load Amps		2.8/1.4	Breakdown Torque			6.5 LB-FT
R.P.M.		3450	Pull-up Torque			4.8 LB-FT
Hz	60	Phase	Locked-rotor Torque			5.7 LB-FT
NEMA Design Code	B	KVA Code	Starting Current			12.1 A
Service Factor (S.F.)		1.15	No-load Current			0.68 A
NEMA Nom. Eff.	84	Power Factor	Line-line Res. @ 25°C			15.2 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load			33°C
S.F. Amps			Temp. Rise @ S.F. Load			38°C
			Locked-rotor Power Factor			56.1
			Rotor inertia			0.0443 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	65	77	83	87	87	85
Efficiency	70.4	80.6	84	84.6	84.7	83.7	84.7
Speed	3567	3539	3510	3479	3446	3410	3459
Line amperes	0.75	0.9	1.09	1.33	1.56	1.88	1.47

ABB Motors and Mechanical Inc.

WINDING # 35WGS921

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

TORQUES (LB-FT): PO=6.5 PU=4.8 LR=5.7 LRA=12.1





