

ABB BALDOR RELIANCE III

Customer information packet

JMEWDM4103T

25HP, 1770RPM, 3PH, 60HZ, 284JM, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284JM
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	25.000 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	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	60.000 A @ 230.0 V 30.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 a

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ624
Layout	10LY-000-754
Eff. date	10-08-2025
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	01-16-2020

Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.44 IN
Power Factor	85
Product Family	Washdown Features
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.250 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP1669L									
CAT.NO.	JMEWDM4103T								
SPEC.	10-0000-1310								
HP	25								
VOLTS	230/460								
AMP	60/30								
RPM	1770								
FRAME	284JM		HZ	60			PH	3	
SER.F.	1.15		CODE	F	DES	B	CLASS	F	
NEMA-NOM-EFF	93.6		PF	85					
RATING	40C AMB-CONT								
CC	010A								
DE	6312		ODE	6309					
ENCL	TEFC		SN						
BLANK	20:1 CT&VT, 1.00SF								

Parts List

Part number	Description	Quantity
SA378609	SA 10-0000-1310	1.000 ea
RA368567	RA 10-0000-1310	1.000 ea
LC0005E01	SPL CONN.DIA./WARN.LABEL(LC0005/LB1119)	1.000 ea
NP1669L	SS WD SUPER-E UL PREM REV MTG	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
10FH1007WP	FAN COVER, W/WHITE EPOXY, PRIMED CASTING	1.000 ea
HW1001S31	WASHER, 5/16 SPLT LK, STAINLESS STEEL	3.000 ea
10XN3118S24	5/16-18 X 1 1/2 HEX HD SS	3.000 ea
09FN3001C02	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.130 lb
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 ea
10EP1104A42WP	FREP, MACH W/O GRSRS & RET HLS W/WHITE E	1.000 ea
10XN3816S32	3/8-16 X 2 HEX HD CAP SCREW, STAINLE	4.000 ea
HW1001S38	WASHER, 3/8 SPLT LK, STAINLESS STEEL	4.000 ea
HW4600B67	V-RING SLINGER 1.770 X 2.170 X .28 VITON	1.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
10EP1304A04P	PU ENDPLATE, MACH W/EPOXY, PRIMED CASTIN	1.000 ea
10XN3816S28	3/8-16 X 1 3/4 HEX HD CAP SCREW, STAINLE	4.000 ea
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 ea
HW4600B14	22358 SEAL (CHIC. RAW)	1.000 ea
10XN3118S44	5/16-18 X 2 3/4 HEX HEAD SS	4.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
10CB1000A352P	CONDUIT BOX, MACH W/EPOXY PRIMER	1.000 ea
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 ea
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea

10CB1503P	CONDUIT BOX LIPPED, CAST W/EPOXY PRIMER	1.000 ea
14GS1003	GASKET CONDUIT BOX LID, NEOP	1.000 ea
10XN2520S16	1/4-20 X 1 HEX HEAD SS	4.000 ea
HW1001S25	WASHER, 1/4 SPLT LK, STAINLESS STEEL	4.000 ea
MG1025W01	WILKOFASST, 781.01, SIGNAL WHITE #9003	0.125 ga
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 qt
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.033 ea
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	1.000 ea
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A07	1.000 ea
HW2502E21	SS KEY 1/4 X 2.375	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
51XB1214S20	12-14X1.25 HXWSSLD SERTYB, SS	1.000 ea

AC Induction Motor Performance Data

Record # 62434

Typical performance - not guaranteed values

Winding: 10WGZ624-R002			Type: 1056M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		25		Full Load Torque		74.31 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		30		Breakdown Torque		197 LB-FT	
R.P.M.		1770		Pull-up Torque		91.4 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		115 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		173 A
Service Factor (S.F.)		1		No-load Current		10.4 A	
NEMA Nom. Eff.		93.6	Power Factor	85	Line-line Res. @ 25°C		0.29877 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C	
				Locked-rotor Power Factor		30.3	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	51	73	81	85	86	86
Efficiency	91	93.8	94.1	93.7	92.9	91.8
Speed	1792.8	1785.5	1778.9	1770.7	1762.4	1751.5
Line amperes	12.5	17	22.9	29.5	36.5	44.7

ABB Motors and Mechanical Inc.

WINDING # 10WGZ624

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 1770 RPM 460 V 1056M

TORQUES (LB-FT): PO=197 PU=91.4 LR=115 LRA=173





