

ABB BALDOR RELIANCE III

Customer information packet

JMFSWDM3558T-E

2HP, 1760RPM, 3PH, 60HZ, 145JM, 3532M, TEFC, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145JM
Frame Material	Stainless 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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM WEEE
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	5.600 A @ 230.0 V 6.000 A @ 208.0 V 2.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	-
Type	AC
Mech. spec.	35E4781
Base	
Status	PRD/A
Elec. spec.	35WGK632
Layout	35LYE4781
Eff. date	03-04-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	02-28-2025

High Voltage Full Load Amps	2.8 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Finish	UNPAINTED
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.15 IN
Power Factor	77
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP4427AAA01													
CAT #	JMFSWDM3558T-E					WT	51		LBS				
SPEC	35E4781K632G1					ENCL	TEFC						
SER #						CC	010A		IP	69			
HP	2		MAG CUR			3.2/1.6							
VOLTS	230/460					NEMA NOM. EFF					86.5		
AMPS	5.6/2.8					PF		77					
RATING	40C AMB-CONT												
RPM	1760					MAX RPM			2700				
FRAME	145JM		HZ	60		CODE		L	CLASS		H		
SER.F.	1.15	SF AMP	6.3/3.15				PH	3	DES	B			
DE	6206		ODE		6205								
LUBRICATION	POLYREX EM												
ID LOGO	INVERTER TYPE				VPWM		CHP	60		TO	90		
ID LOGO	WK2	0.232	CT	15	TO	60	4:1						
ID LOGO	SL HZ	1.2	VT	3	TO	60	20:1						
							QR						
YR													

Parts List

Part number	Description	Quantity
SA435347	SA 35E4781K632G1	1.000 ea
RA427661	RA 35E4781K632G1	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
35CB1017A02	5/36 MID SECT - 3 PC. CONDUIT BOX 3/4 N	1.000 ea
HA3424S48	STUD - M6X1.0 THDS X 3.00"	1.000 ea
RM1070A81	O-RING, -O43 VITON/FKM .070CS X 3.489ID	1.000 ea
11XW1032G08	10-32 X .50, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
35EP1940A05	FRONT TEFC 205 BRG (STAINLESS)	1.000 ea
RM1070A25	O-RING, VITON/FKM .070CS X 6.190ID	1.000 ea
HW4600G01	.984X1.499X.25 VITON SLICK SERIES LIP	1.000 ea
HW4600E99	25 X 42 X 6 AFX SEAL, GRAPHITE INFUSED V	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
35EP1936A02	PU EP ENCL 206 BRG 56C/143-5TC (STAINLES	1.000 ea
RM1070A25	O-RING, VITON/FKM .070CS X 6.190ID	1.000 ea
HW4600G02	30 X 47 X 8 LIP SEAL, GRAPHITE INFUSED V	1.000 ea
HW4600F25	30 X 48 X 4.5 AFX SEAL, GRAPHITE INFUSED	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
RM1070A26	O-RING,4.5MM I.D.X1.5MM C.S. (VITON)	4.000 ea
35FH4005A39	IEC FH NO GREASER DEBURR/CLEAN - SS	1.000 ea
10XN1032FS06	HEX HD CAP SCREW 10-32 X 3/8 SS FOOD SAF	3.000 ea
RM1070A81	O-RING, -O43 VITON/FKM .070CS X 3.489ID	1.000 ea
35CB1513A01	35-36-37 MACH. LID - 3 PC. CONDUIT BOX	1.000 ea
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.005 qt
MJ5004A93	FOOD GRADE (H1 RATED) ANTISEIZE THRD COM	0.005 ea
HA1025A21	WSHR,FELT .125" THK	1.000 ea
HA5027A09	DRAIN KIT,(2)HA4002A03 BAGGED W/LABEL	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb

19XB0818S12	8-18X3/4 HXWS TYB HIGH-LOW	1.000 ea
WD5603A01	KIT, CLOSED-END LEAD SPLICE (18-14GA)	1.000 ea
HA3100FS60	THRUBOLT, 10-32 X 10.375 SS FOOD SAFE	4.000 ea
GOPA1000	PKG GRP, PRINT PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000016	ZTRG FE ASSEMBLY	1.000 ea
PE-0000010	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 111071

Typical performance - not guaranteed values

Winding: 35WGK632-R001			Type: 3532M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2	Full Load Torque		6.01 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		5.6/2.8	Breakdown Torque		22.9 LB-FT		
R.P.M.		1760	Pull-up Torque		12.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		16.3 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		24.4 A
Service Factor (S.F.)		1.15	No-load Current		1.55 A		
NEMA Nom. Eff.		86.5	Power Factor	77	Line-line Res. @ 25°C		8.6033 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		66°C
S.F. Amps		6.3/3.15	Temp. Rise @ S.F. Load		81°C		
			Locked-rotor Power Factor		53.6		
			Rotor inertia		0.231 lb-ft²		

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	57	70	78	82	85	80
Efficiency	78.6	85.5	86.9	86.6	85.5	84	85.9
Speed	1789.9	1780.7	1770.8	1760.2	1748.4	1735.8	1753
Line amperes	1.67	1.94	2.33	2.81	3.35	3.94	3.13

ABB Motors and Mechanical Inc.

WINDING # 35WGK632

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1760 RPM 460 V 3532M

TORQUES (LB-FT): PO=22.9 PU=12.9 LR=16.3 LRA=24.4





