

ABB BALDOR RELIANCE III

Customer information packet

AFL3522A

1.5HP, 3450RPM, 1PH, 60HZ, 143TZ, 3528L, TEAO

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	143TZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UR CSA
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	16.600 A @ 115.0 V 8.300 A @ 230.0 V 8.600 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	AK
Type	AC
Mech. spec.	35T889
Base	
Status	PRD/A
Elec. spec.	35WG0525
Layout	35LYT889
Eff. date	07-25-2024
CD Diagram	CD0052
Poles	02
Leads	4#16 A&J,2#18 B PH,1#14 #1TH
Proprietary	False
Created date	06-22-2007

High Voltage Full Load Amps	8.3 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A&J
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.74 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	No Slinger
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	Automatic Thermal Overload

Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1280L									
CAT.NO.	AFL3522A								
SPEC.	35T889-0525								
HP	1.5								
VOLTS	115/230								
AMP	16.6/8.3								
RPM	3450								
FRAME	143TZ		HZ	60		PH	1		
SER.F.	1.00		CODE	H	DES	L	CL	B	
NEMA-NOM-EFF	70		PF	82					
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEAO		SN						

Parts List

Part number	Description	Quantity
SA111025	SA 35T889-0525	1.000 ea
RA102404	RA 35T889-0525	1.000 ea
EC1645A06SP	ELEC CAP, 645-774 MFD, 125V, 2.06D X 4.	1.000 ea
RM1001A01	GROMMET "MIDSTATES"	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
35EP3102A02SP	FR ENDPLATE, MACH	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3123F00	MASTER DE,205 BRG,.998SH,#26 DRN,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
35CB4500	TERMINAL BOX LID STAMPED	1.000 ea
35GS1002	GASKET,1/16 THICK LEXIDE	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025C02	WILKOFASST SG, 787.105, TAN	0.017 ga
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 ea
35CB4802A02SP	CAPACITOR COVER, STAMPED X	1.000 ea
35GS3001A02	GASKET, CA.COVER, 5.38 LONG .06 CS301	1.000 ea
SP5066A01	35 TERM PANEL SWITCH W/E-BLK, 8-RED	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0052	CONNECTION LABEL	1.000 ea
NP1280L	ALUM FARM DUTY UL CC THERMAL	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

PE-0000001

ZRTG PE ASSEMBLY

1.000 ea

AC Induction Motor Performance Data

Record # 8080

Typical performance - not guaranteed values

Winding: 35WG0525-R001			Type: 3528L		Enclosure: TEFC	
Nameplate Data				230 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		1.5		Full Load Torque		2.3 LB-FT
Volts		115/230		Start Configuration		direct on line
Full Load Amps		16.6/8.3		Breakdown Torque		5.6 LB-FT
R.P.M.		3450		Pull-up Torque		4.2 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		5.5 LB-FT
NEMA Design Code		L	KVA Code	Starting Current		42 A
Service Factor (S.F.)		1		No-load Current		3.8 A
NEMA Nom. Eff.		70	Power Factor	Line-line Res. @ 25°C		1.26 Ω A Ph 1.23 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		70°C

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	52	69	78	84	87	88
Efficiency	54.9	67.7	71.6	72.4	71.2	68.4
Speed	3568	3543	3518	3485	3452	3409
Line amperes	4.4	5.4	6.6	8.3	9.9	12

ABB Motors and Mechanical Inc.

WINDING # 35WG0525

Typical performance - not guaranteed values.

1.5 HP 1 PH 60 HZ 3450 RPM 230 V 3528L

TORQUES (LB-FT): PO=5.6 PU=4.2 LR=5.5 LRA=42





