

ABB BALDOR RELIANCE III

Customer information packet

IDVSNM3584T

1.5HP, 1765RPM, 3PH, 60HZ, 145TC, 0528M, TENV

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	145TC
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	1.500 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	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	2.100 A @ 460.0 V 4.200 A @ 230.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.1 a
Insulation Class	H

Part Detail

Revision	B
Type	AC
Mech. spec.	05E534
Base	
Status	PRD/A
Elec. spec.	05WGX610
Layout	05LYE534
Eff. date	08-19-2026
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	02-23-2023

Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.65 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1163L									
CAT NO	IDVSNM3584T								
SPEC.	05E534X610G1								
FRAME	145TC			HP	1.5 TE				
VOLTS	230/460								
MAG CUR	2.26/1.13			FLA		4.2/2.1			
RPM	1765		RPM MAX			2700			
HZ	60	PH	3	CLASS			H		
SER.F.	1.00	DES	-	SL HZ			1.2		
NEMA-NOM-EFF	84	WK2		0.202					
BLWR V		PH		HZ		A			
RATING	40C AMB-CONT								
DE BRG	6205	ODE BRG			6203				
CC	SN								
	1000:1 CT/VT								

Parts List

Part number	Description	Quantity
SA414889	SA 05E534X610G1	1.000 ea
RA406658	RA 05E534X610G1	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
10XN2520A06	1/4 20X3/8 HX HD CAP	2.000 ea
06CB3000	BALDOR CONDUIT BOX CAST	1.000 ea
06GS1000	GASKET,CONDUIT BOX	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
35EP1100B45	FRONT TENV 203 BRG W/GRSR & THRU-SHAFT E	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP1329A01	PU EP ENCL 143-5TC 205 BRG W/GRSR & STD	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
HA3100A28	THRUBOLT 10-32 X 8.187	4.000 ea
35FH4801G	THRU-SHAFT ENCODER COVER INV/VECTOR F1 &	1.000 ea
WD4129	1.50 X 1.50 GRAY SNAP IN PLUG PROMOULD #	2.000 ea
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	4.000 ea
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	1.000 ea
06CB3500	BALDOR CONDUIT BOX LID	1.000 ea
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
MJ5004A05	#242-21 LOCTITE GENERAL PURPOSE MED. STR	0.005 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1000N49	MUNSELL 8.5BG 3.57/2.0, GLOSS 30, B/G,	0.022 ga

LC0145B01	CONNECTION LABEL	1.000 ea
NP1163L	ALUM INV UL CSA CC	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 87014

Preliminary Data Sheet

Winding: 05WGX610-R001			Type: 0528M		Enclosure: TENV	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		4.44 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		4.2/2.1	Breakdown Torque		16.3 LB-FT	
R.P.M.		1765	Pull-up Torque		7 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		10.6 LB-FT	
NEMA Design Code		- KVA Code	Starting Current		17.8 A	
Service Factor (S.F.)		1	No-load Current		1.13 A	
NEMA Nom. Eff.	84 Power Factor	80	Line-line Res. @ 25°C		13.4 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		35°C	
			Locked-rotor Power Factor		59.7	
			Rotor inertia		0.202 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	39	60	72	80	84	87
Efficiency	76	84	86	85	84	83
Speed	1791	1783	1774	1764	1754	1742
Line amperes	1.2	1.4	1.69	2.05	2.47	2.93

ABB Motors and Mechanical Inc.

WINDING # 05WGX610

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1765 RPM 460 V 0528M

TORQUES (LB-FT): PO=16.3 PU=7 LR=10.6 LRA=17.8



