

ABB BALDOR RELIANCE III

Customer information packet

CDRX282524T-5

25HP, 3520RPM, 3PH, 60HZ, 284TSC, XPFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	284TSC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
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
Constant Torque Speed Range	6
Current @ Voltage	23.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	23.0 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ277
Layout	10LYG898
Eff. date	11-22-2024
CD Diagram	CD0006
Poles	02
Leads	3#10
Proprietary	False
Created date	07-19-2019

IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1048M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	27.23 IN
Power Factor	90
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3520 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

NP1401XPSLEV											
NO.						CC	010A				
S/N						TEMP CODE		T3C			
SPEC.	10-0000-0934					INV.TYPE		PWM			
CAT.NO.	CDRX282524T-5					C HP FR	60	C HP TO	90		
HP	25					CT HZ FROM		6	CT HZ TO		60
VOLTS	575					VT HZ FROM		6	VT HZ TO		60
AMPS	23				MAG CUR	5.5					
RPM	3520				MX RPM	5400					
HZ	60	PH	3	CL	F	NOM.EFF.		91.7			
SER.F.	1.00	DES	B	SL HZ	1.3	WK2	2.07				
FRAME	284TSC		RATING		40C AMB-CONT						
	55C AMB @ 1.0 SF, 60C RISE										
	1.15SF ON SINEWAVE					NEMA MG-1 PT.5,IP55					

Parts List

Part number	Description	Quantity
SA372039	SA 10-0000-0934	1.000 ea
RA361762	RA 10-0000-0934	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP1401XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-C&D	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1081C	ALUM XP CAUTION LABEL (COL PLANT ONLY-	1.000 ea
14PA2000	PKGP, CTN ID 42X34X25, STD BASE	1.000 ea
10FH1008A05P	310 FAN HOUSING X-PROOF MACH. W/EPOXY PR	1.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	3.000 ea
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	3.000 ea
37FN3002C03	EXFN, PLASTIC, 6.00 OD, 1.690 ID	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.130 lb
WD4100A03	DE-750 HEYCO PLUG 62MP0750 MICRO PLASTIC	1.000 ea
HA3050A03	3/8-16 X 2.25" GRADE 8 BOLT	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HA2066A02	ALUM SLINGER 309 BRG DRILL RIG MOTOR)	1.000 ea
80XN1032J06	10-32 X 3/8 SET SCREW, HEX SOC, CUP PT	2.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	2.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
10EP1710A09P	FACE MTD. EP MACH XPFC W/HW4505A02 W/PRI	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HA3050A03	3/8-16 X 2.25" GRADE 8 BOLT	4.000 ea
HA2067A01	ALUM SLINGER 311 BRG DRILL RIG MOTOR	1.000 ea
80XN1032J06	10-32 X 3/8 SET SCREW, HEX SOC, CUP PT	2.000 ea
10XN2520K40	1/4-20 X 2-1/2 HEX HD CAPSCREW,GRADE 5,Z	4.000 ea

HW4500A20	1/8NPT SL PIPE PLUG	2.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
10EP1701A57LP5	FR ENDPLATE, MACH PRIMED & PAINTED	1.000 ea
12CB1003A02P	KOBX, MACH 1.50 NPT GROUP C MTRS ,EPOXY	1.000 ea
10XN3118K24	5/16-18 X 1.50" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
WD1000B19	TERMINAL BURNDY L250HP	1.000 ea
10XN3816K08	3/8-16 X .50 HEX HD CAP SCREW GRADE 5	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	1.000 ea
12CB1502A01P	CONDUIT BOX LID MACH. GROUP C MTRS	1.000 ea
84XN5013J32	SOCKET HD.CAP SCR,1/2-13 X 2"LG,ALLOY ST	10.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	10.000 ea
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.125 ga
HW2501G17	KEY, 3/8 SQ X 1.875	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 77477

Typical performance - not guaranteed values

Winding: 10WGZ277-R006			Type: 1048M		Enclosure: XPFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		25	Full Load Torque		37.4 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		23	Breakdown Torque		101 LB-FT		
R.P.M.		3520	Pull-up Torque		41.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		53 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		134 A
Service Factor (S.F.)		1	No-load Current		5.48 A		
NEMA Nom. Eff.		91.7	Power Factor	90	Line-line Res. @ 25°C		0.444 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		57°C	
S.F. Amps				Temp. Rise @ S.F. Load		72°C	
				Locked-rotor Power Factor		23.2	
				Rotor inertia		2.06 LB-FT2	

Load Characteristics 575 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	69	83	88	90	90	90
Efficiency	87.9	91.5	92.2	91.7	90.9	89.7
Speed	3580	3563	3542	3520	3496	3468
Line amperes	8.03	12.3	17.4	22.7	28.5	34.9

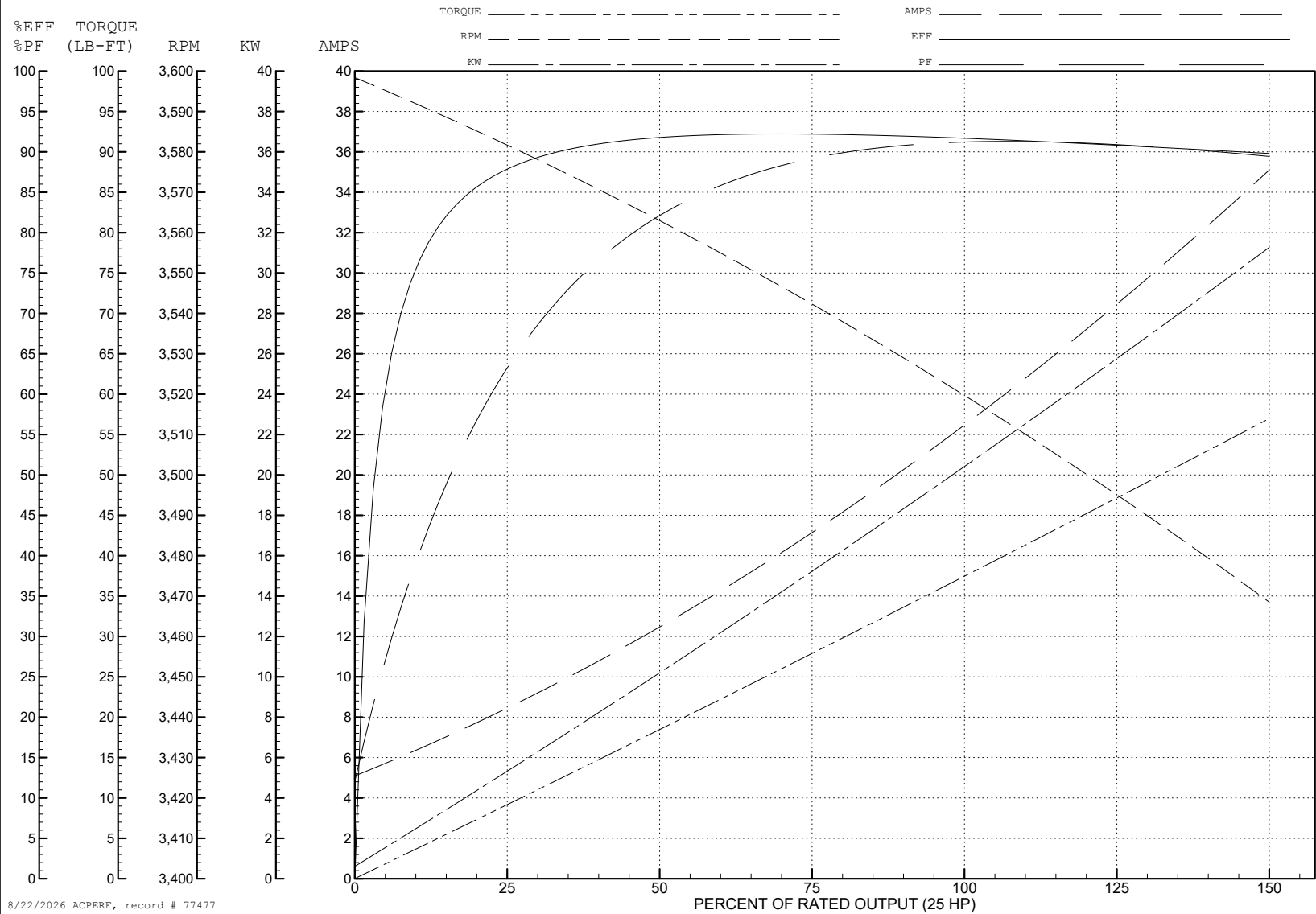
ABB Motors and Mechanical Inc.

WINDING # 10WGZ277

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 3520 RPM 575 V 1048M

TORQUES (LB-FT): PO=101 PU=41.3 LR=53 LRA=134





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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