

ABB BALDOR RELIANCE III

Customer information packet

CECP2276T

7.5HP, 1180RPM, 3PH, 60HZ, 254TC, 0954M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM 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
Constant Torque Speed Range	1.0
Current @ Voltage	25.000 A @ 208.0 V 21.400 A @ 230.0 V 10.700 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	Z
Type	AC
Mech. spec.	09H180
Base	
Status	PRD/A
Elec. spec.	09WGX827
Layout	09LYH180
Eff. date	09-16-2025
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	11-14-2013

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	10.7 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	25.28 IN
Power Factor	71
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1180 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
NP3995ABAL

CAT #				CECP2276T				SER				CC				010A									
SPEC				09H180X827				RATING				40C AMB-CONT													
HZ		VOLTS				AMPS				RPM		HP		CODE		SF		DES		PF		NEMA NOM. EFF			
60		230/460				21.4/10.7				1180		7.5		J		1.15		A		71 %		91 %			
																				% %					
PH		3		CL		F		MAX RPM		1800		MAX CORR KVAR				4.15		USABLE AT 208V				N/A			
IP55				FR		254TC		ENCL		TEFC		DE BRG		6309		ODE BRG		6309							
GREASE				POLYREX EM														MTR WT		305		LBS			
USABLE AT				50HZ 5HP 190/380V 18.6/9.3A														SF1.0							
CL I DIV 2 GRPS A,B,C,D												CL I ZONE 2 GRPS				IIA,IIB,IIC				TEMP T		160		C	
1.0 SF ON PWM INVERTER								POWER				INV TEMP CL				180		C							
CHP		60-90		HZ		1.5:1		CT		1.0-60		HZ		60:1		VT		0-60		HZ		1000:1			
SPACE HEATER LEADS H1-H2:												TIE LIKE NUMBERS				TOGETHER									
V				A				W				MAX SPACE HEATER TEMP													

Parts List

Part number	Description	Quantity
SA272285	SA 09H180X827	1.000 ea
RA258895	RA 09H180X827	1.000 ea
09FN3001D01SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 ea
09CB1002A12P	KOBX W/1.25 NPT LEAD HOLE & 2.38 MTG HOL	1.000 ea
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 ea
HA3400A39	STUD- 3/8-16 X 6.44 OAL HEX	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HA4017A08	.125 X 3.50 LGTH GREASER EXTEN.	1.000 ea
HA4017A02	.125X2.50 GREASER EXTENS.F/S	1.000 ea
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	2.000 ea
09FH1000P	FAN COVER, CAST W/EPOXY PRIMER	1.000 ea
09EP1300A12P	ENDPLATE, MACH EPOXY PRIMER	1.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	4.000 ea
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 ea
HA1005A26	SLINGER, OD 3.00, ID 1.75, 309 BRG	1.000 ea
12CB1503P	CONDUIT BOX LID, CAST W/EPOXY PRIMER	1.000 ea
12GS1002	GASKET, CONDUIT BOX LID, NEOP	1.000 ea
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	2.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 ea
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 qt
MJ5001A14	DYNAPRO SEALANT, CP MTR VC#2508050 (603	0.023 ea

09EP1118A05LP5	FREP MACH, 309 BRG. EPOXY PRIMER	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LD7020D09	LEAD SET, 12AWG, 9 LEAD, 20" LONG LEADS	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.080 lb
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
MG1025N19	WILKOFAS, 778.50, RELIANCE BLUE-GREEN 8	0.050 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
NP3995ABAL	SS SUPER-E SD XEX CLI DIV2 UR CSA-C-US E	1.000 ea
40PA1005	PACKAGING GROUP, 09 STD	1.000 ea

AC Induction Motor Performance Data

Record # 47260

Typical performance - not guaranteed values

Winding: 09WGX827-R040			Type: 0954M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5		Full Load Torque		32.4 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		21.4/10.7		Breakdown Torque		99.2 LB-FT	
R.P.M.		1180		Pull-up Torque		39.4 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		57.8 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		69.7 A
Service Factor (S.F.)		1.15		No-load Current		5.84 A	
NEMA Nom. Eff.		91	Power Factor	71	Line-line Res. @ 25°C		0.89 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		31°C	
S.F. Amps				Temp. Rise @ S.F. Load		36°C	
				Rotor inertia		4.34 LB-FT2	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	52	63	71	73	75	72
Efficiency	83	89.7	91.5	91.5	91.8	91.2	91.9
Speed	1196	1192	1189	1184	1179	1173	1181
Line amperes	6.34	7.49	8.87	10.7	12.9	15.7	12

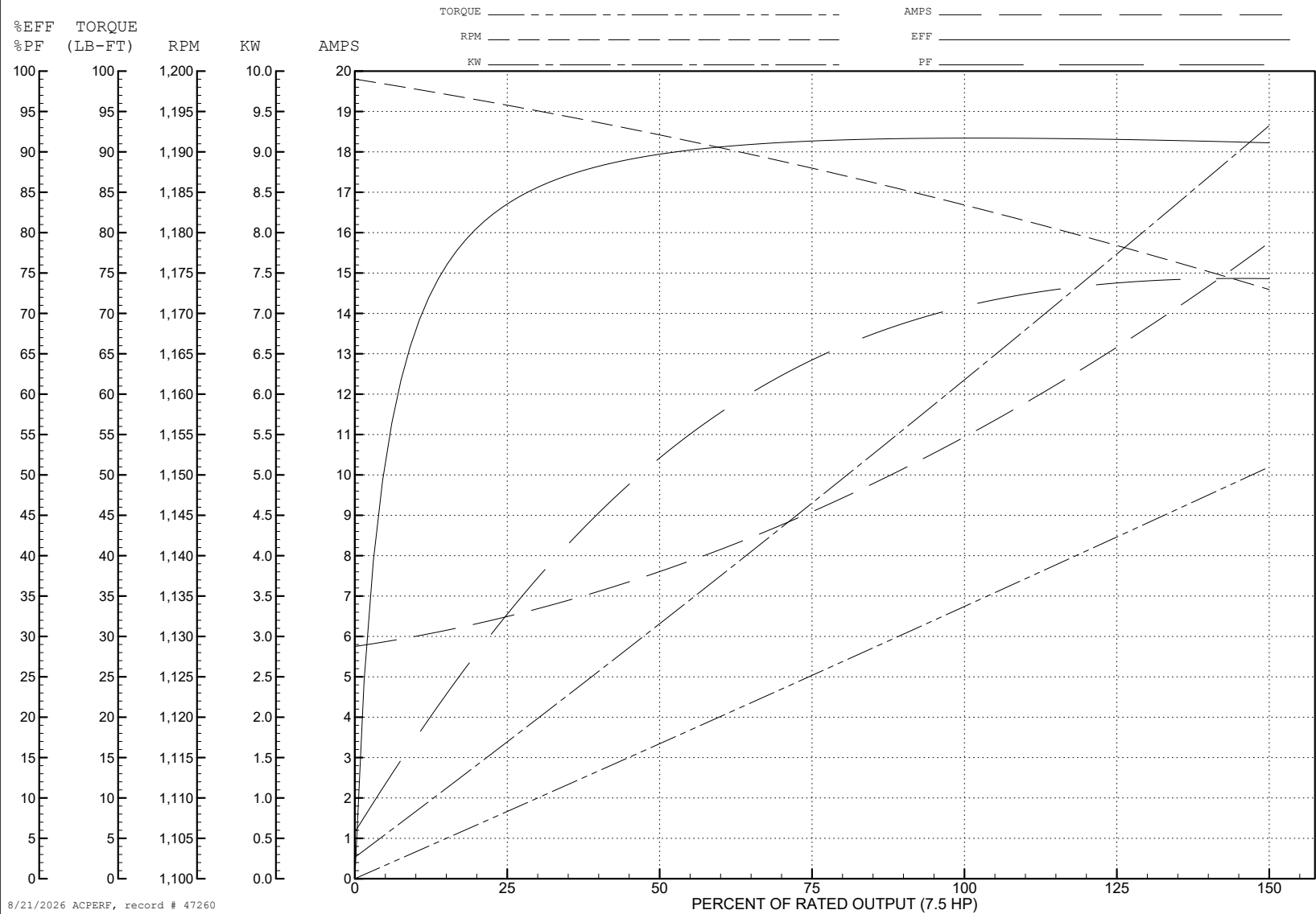
ABB Motors and Mechanical Inc.

WINDING # 09WGX827

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 0954M

TORQUES (LB-FT): PO=99.2 PU=39.4 LR=57.8 LRA=69.7



8/21/2026 ACPERF, record # 47260

