

ABB BALDOR RELIANCE III

Customer information packet

CPX322566T

25HP, 1180//985RPM, 3PH, 60HZ, 324TY, XPFC, F1

Class - CLI GP C,D; CLII GP E,F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	324TY
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP E,F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 50 HZ 25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ 190.0 V @ 50 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	69.000 A @ 208.0 V 63.000 A @ 230.0 V 62.000 A @ 190.0 V 32.000 A @ 460.0 V 31.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY116
Layout	12LY-000-157
Eff. date	06-11-2025
CD Diagram	CD0180
Poles	06
Leads	9#8
Proprietary	False
Created date	04-24-2019

Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	31.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1260M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	32.24 IN
Power Factor	79
Product Family	Chemical Process Features
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 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

NP2033XPSLEV												
NO.							CC	010A				
S/N							TEMP CODE	T3C				
SPEC.	12-0000-0653						INV.TYPE	PWM				
CAT.NO.	CPX322566T						C HP FR	60	C HP TO	90		
HP	25//20						CT HZ FROM	6	CT HZ TO	60		
VOLTS	230/460//190/380						VT HZ FROM	6	VT HZ TO	60		
AMPS	63/32//62/31						MAG CUR	28/14				
RPM	1180//985						MX RPM	1800				
HZ	60//50	PH	3	CL	F	NOM.EFF.	93					
SER.F.	1.00	DES	A	SL HZ	1	WK2	11.5					
FRAME	324TY	RATING		40C AMB-CONT								
BLANK	55C AMB @ 1.00 SF, 60C RISE											
	1.15SF ON SINEWAVE						NEMA MG-1 PT.5,IP55					

AC Induction Motor Performance Data

Record # 44636

Typical performance - not guaranteed values

Winding: 12WGY116-R013			Type: 1260M		Enclosure: XPFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		25		Full Load Torque		111 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		63/32		Breakdown Torque		308 LB-FT	
R.P.M.		1180		Pull-up Torque		117 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		171 LB-FT	
NEMA Design Code		A	KVA Code	H		Starting Current	198 A
Service Factor (S.F.)		1		No-load Current		13.8 A	
NEMA Nom. Eff.		93	Power Factor	79		Line-line Res. @ 25°C	0.27033 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	46°C
						Locked-rotor Power Factor	28
						Rotor inertia	11.5 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	43	65	75	79	81	81
Efficiency	89.1	92.8	93.5	93.2	92.6	91.5
Speed	1195.4	1191.8	1188.2	1183.9	1179.3	1172.9
Line amperes	15.6	19.7	25.4	31.9	39.2	49.1

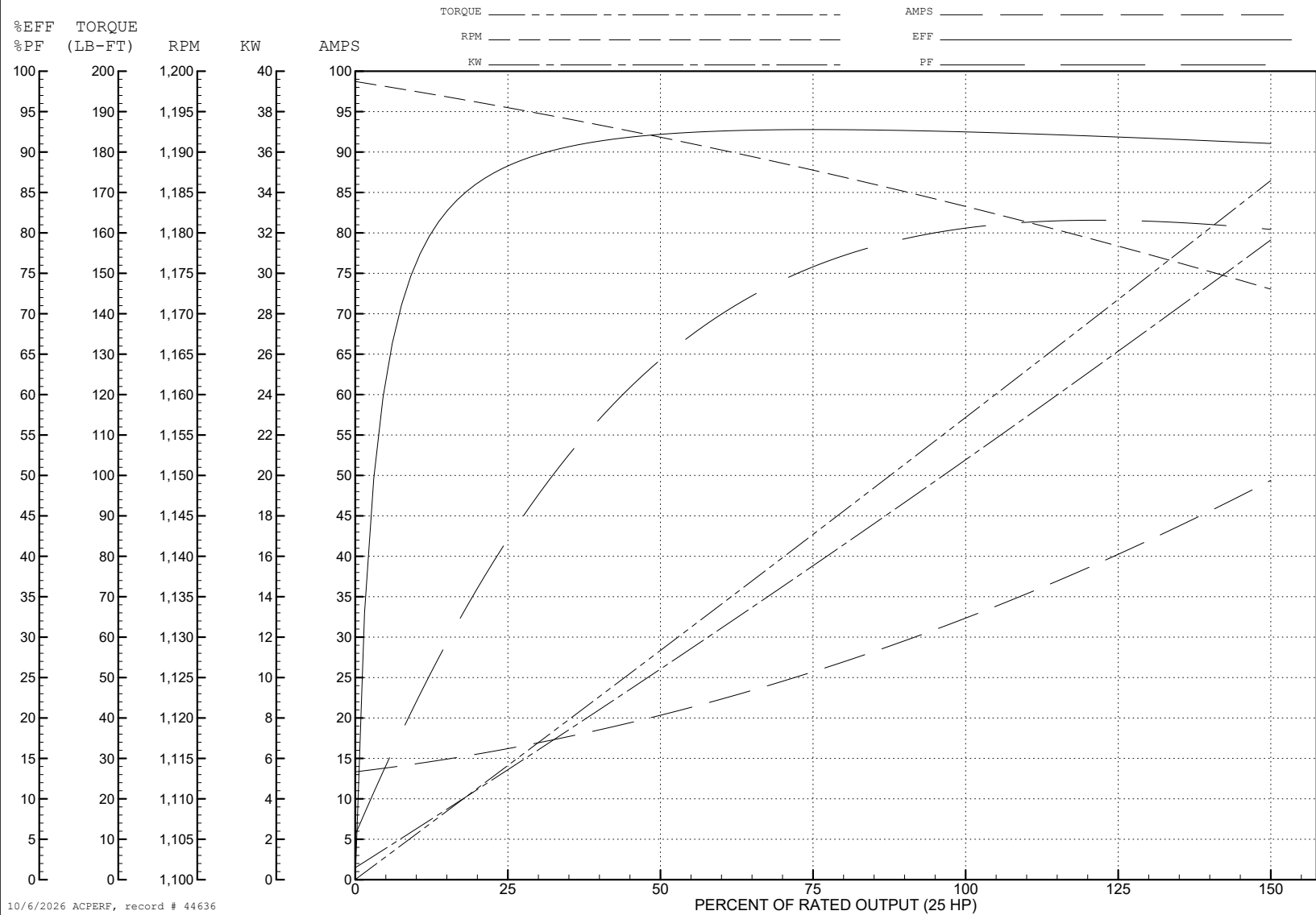
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WINDING # 12WGY116

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 1180 RPM 460 V 1260M

TORQUES (LB-FT): PO=308 PU=117 LR=171 LRA=198



AC Induction Motor Performance Data

Record # 75510

Typical performance - not guaranteed values

Winding: 12WGY116-R026				Type: 1260M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		25//20		Full Load Torque		107 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		63/32//62/31		Breakdown Torque		298 LB-FT	
R.P.M.		1180//985		Pull-up Torque		122 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		H	
Service Factor (S.F.)		1		Locked-rotor Torque		179 LB-FT	
NEMA Nom. Eff.		93		Starting Current		194 A	
Rating - Duty		40C AMB-CONT		No-load Current		13.66 A	
S.F. Amps				Line-line Res. @ 25°C		0.286 Ω	
				Temp. Rise @ Rated Load		44°C	
				Temp. Rise @ S.F. Load		54°C	
				Locked-rotor Power Factor		31.2	
				Rotor inertia		11.5 LB-FT ²	

Load Characteristics 380 V, 50 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	43	65	74	79	81	81
Efficiency	87.2	91.6	92.4	92.6	91.6	90.4
Speed	996	992	989	984	980	974
Line amperes	15.36	19.25	24.75	31.04	38.2	47.83

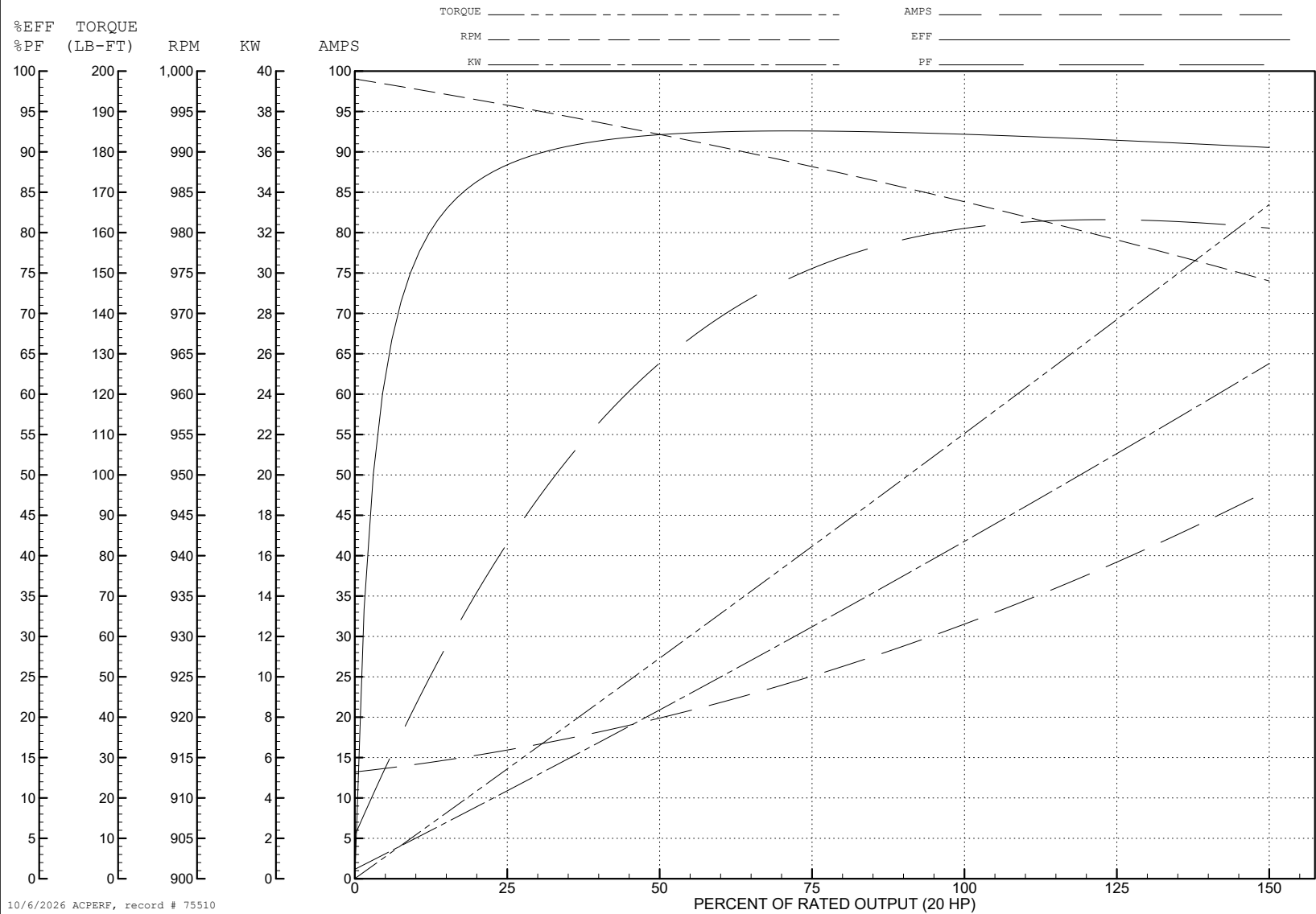
ABB Motors and Mechanical Inc.

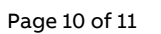
WINDING # 12WGY116

Typical performance - not guaranteed values.

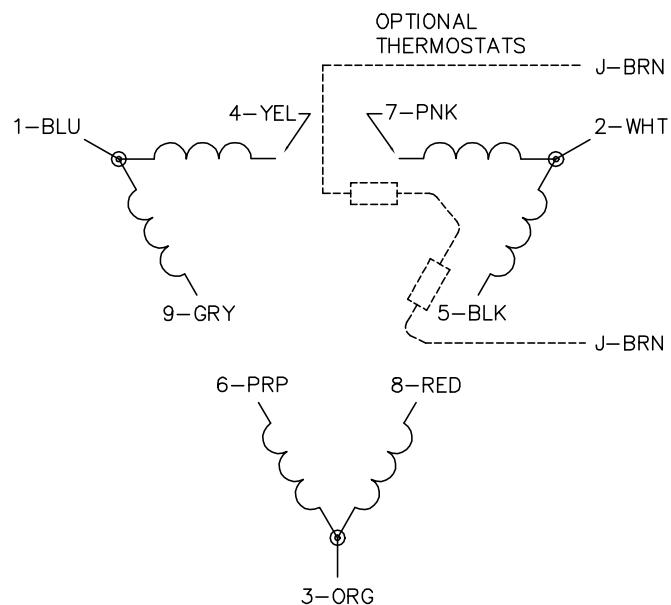
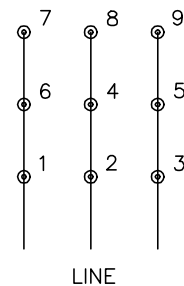
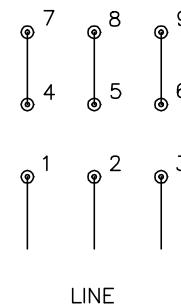
20 HP 3 PH 50 HZ 984 RPM 380 V 1260M

TORQUES (LB-FT): PO=298 PU=122 LR=179 LRA=194





CD0180


 LOW VOLTAGE
(2D)

 HIGH VOLTAGE
(1D)

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

CD0180