

ABB BALDOR RELIANCE III

Customer information packet

CPX32426T

40HP, 3540//2950RPM, 3PH, 60HZ, 324TSY, XPFC,

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

Division - Division I

Specifications

Enclosure	XPFC
Frame	324TSY
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	30.000 HP @ 50 HZ 40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	98.000 A @ 208.0 V 90.000 A @ 230.0 V 82.000 A @ 190.0 V 45.000 A @ 460.0 V 41.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY584
Layout	12LY-000-226
Eff. date	11-05-2024
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	05-21-2019

Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
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	41.0 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	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1252M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	30.50 IN
Power Factor	88
Product Family	Chemical Process Features
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3540 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.	12-0000-0651					INV.TYPE		PWM			
CAT.NO.	CPX32426T					C HP FR	60		C HP TO	90	
HP	40//30					CT HZ FROM		6		CT HZ TO	60
VOLTS	230/460//190/380					VT HZ FROM		6		VT HZ TO	60
AMPS	90/45//82/41				MAG CUR	24/12					
RPM	3540//2950				MX RPM	5400					
HZ	60//50		PH	3	CL	F	NOM.EFF.	92.4			
SER.F.	1.00		DES	A	SL HZ	1	WK2	4.07			
FRAME	324TSY		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 # 66216

Typical performance - not guaranteed values

Winding: 12WGY584-R006			Type: 1252M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		40		Full Load Torque		59.2 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		90/45		Breakdown Torque		250 LB-FT
R.P.M.		3540		Pull-up Torque		85.8 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		118 LB-FT
NEMA Design Code		A	KVA Code	Starting Current		325 A
Service Factor (S.F.)		1		No-load Current		11.7 A
NEMA Nom. Eff.		92.4	Power Factor	Line-line Res. @ 25°C		0.12 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		59°C
				Locked-rotor Power Factor		20.8
				Rotor inertia		4.07 LB-FT2

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	67	83	89	90	91	91
Efficiency	84.6	90.4	91.9	92.6	92	91.5
Speed	3587	3574	3561	3548	3533	3518
Line amperes	16.4	24.7	34.4	44.7	55.9	67.4

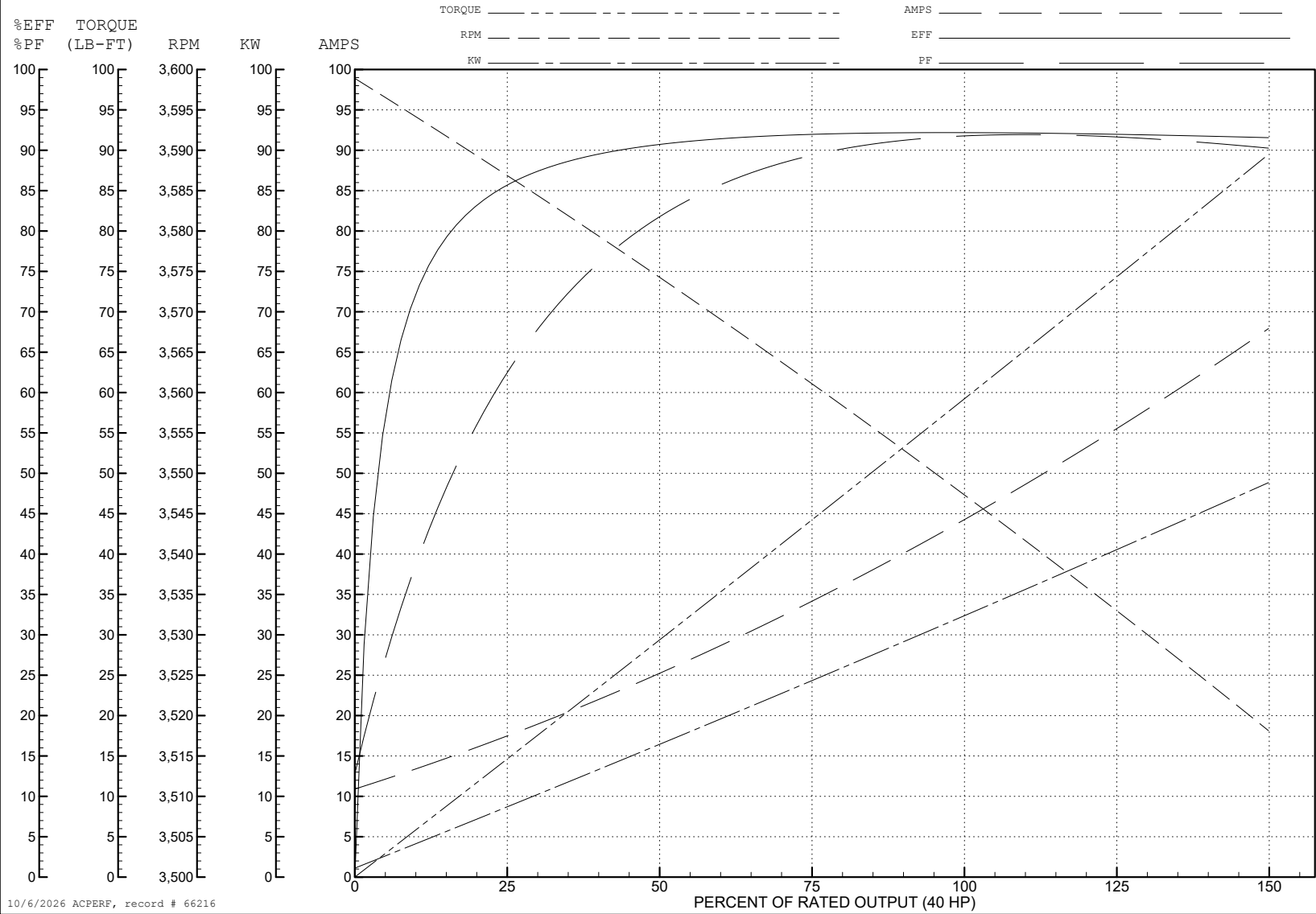
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WINDING # 12WGY584

Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 3540 RPM 460 V 1252M

TORQUES (LB-FT): PO=250 PU=85.8 LR=118 LRA=325



AC Induction Motor Performance Data

Record # 75686

Typical performance - not guaranteed values

Winding: 12WGY584-R003				Type: 1252M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		40//30		Full Load Torque		53.34 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		90/45//82/41		Breakdown Torque		243 LB-FT	
R.P.M.		3540//2950		Pull-up Torque		91.37 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		126 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		319 A
Service Factor (S.F.)		1		No-load Current		11.51 A	
NEMA Nom. Eff.		92.4	Power Factor	88	Line-line Res. @ 25°C		0.125 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		51°C	
S.F. Amps				Temp. Rise @ S.F. Load		62°C	
				Locked-rotor Power Factor		23.5	
				Rotor inertia		4.07 LB-FT2	

Load Characteristics 380 V, 50 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	64	82	88	90	91	91
Efficiency	85.1	90.6	92	92.6	91.9	91.3
Speed	2988	2977	2965	2954	2941	2928
Line amperes	15.53	22.84	31.5	40.78	50.89	61.21

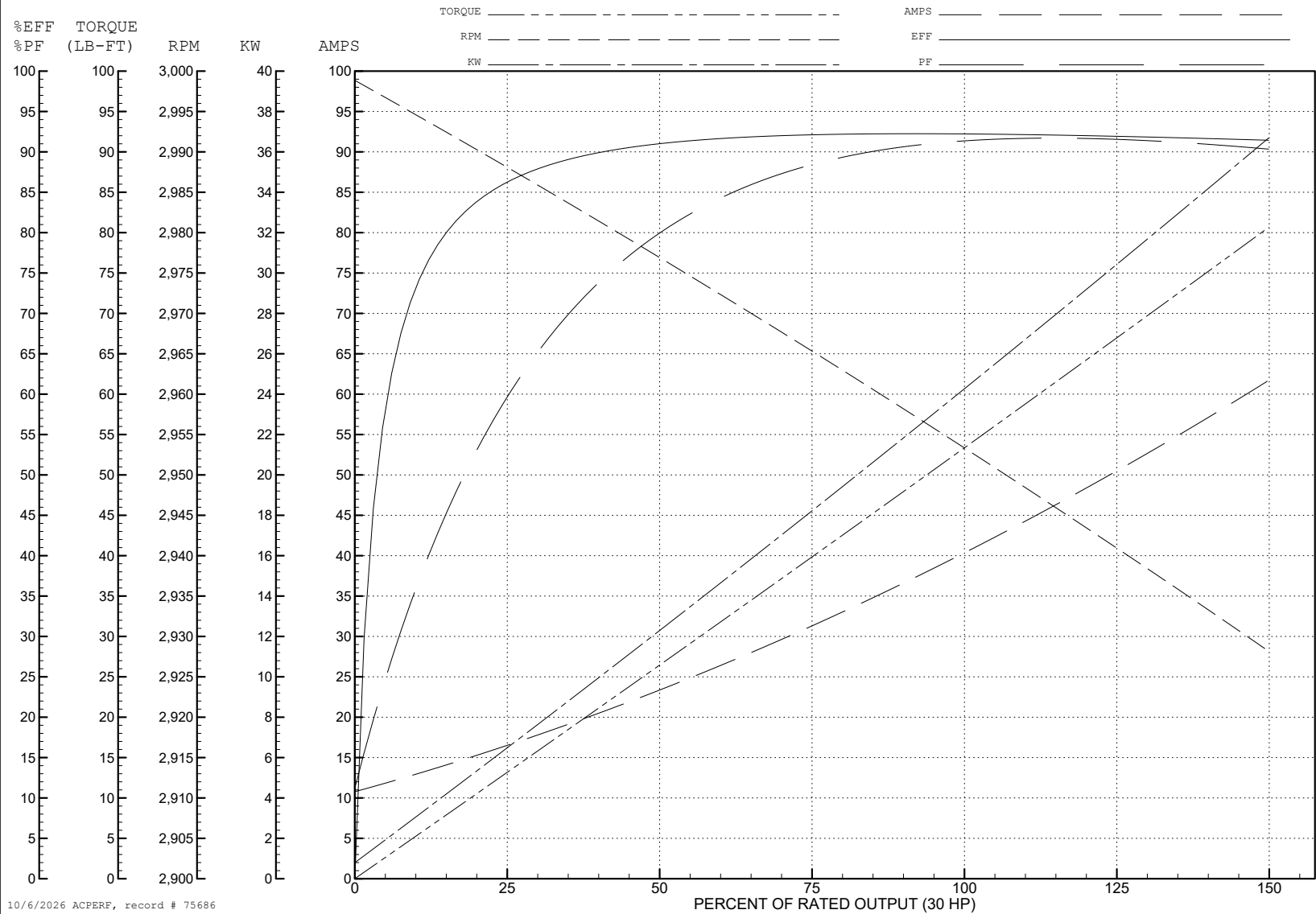
ABB Motors and Mechanical Inc.

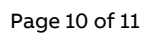
WINDING # 12WGY584

Typical performance - not guaranteed values.

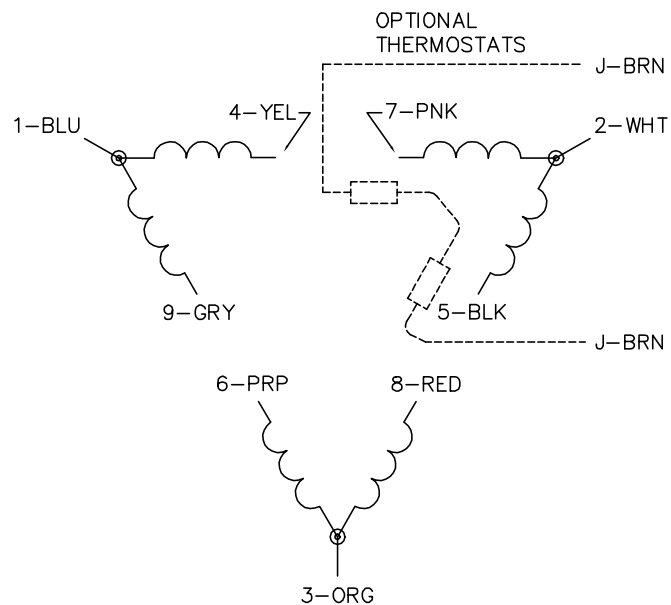
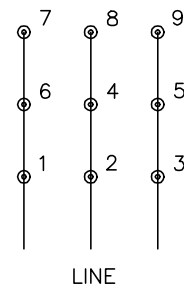
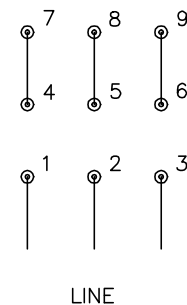
30 HP 3 PH 50 HZ 2954 RPM 380 V 1252M

TORQUES (LB-FT): PO=243 PU=91.37 LR=126 LRA=319





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