

ABB BALDOR RELIANCE III

Customer information packet

CEM7067T-I

40//30HP, 3540//2950RPM, 3PH, 60//50HZ, 324T

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	324TSC
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ 30.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	UL CSA CSA EEV 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
Current @ Voltage	41.000 A @ 380.0 V 45.000 A @ 460.0 V 82.000 A @ 190.0 V 90.000 A @ 230.0 V 98.000 A @ 208.0 V
Design Code	A

Part Detail

Revision	Q
Type	AC
Mech. spec.	12F665
Base	
Status	PRD/A
Elec. spec.	12WGY584
Layout	12LYF665
Eff. date	12-04-2024
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	11-22-2013

Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
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	41.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X1252M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	30.50 IN
Power Factor	88
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	2950 rpm
	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

NP0977XPSLEV												
NO.								CC	010A			
SER.								TEMP CODE		T3C		
SPEC.	12F665Y584G1											
CAT.NO.	CEM7067T-I											
HP	40//30 NEMA MG-1 PT.5,IP55											
VOLTS	230/460//190/380											
AMPS	90/45//82/41											
RPM	3540//2950					MOTOR WEIGHT			500			
HERTZ	60//50	PH	3	CL	F	DE BRG	6312					
SER.F.	1.15	DES	A	CODE		H	ODE BRG		6311			
FRAME	324TSC		GREASE		POLYREX EM							
RATING	40C AMB-CONT											
					NEMA-NOM-EFF				92.4		PF	88
	55C AMB @ 1.0 SF,60C RISE											

AC Induction Motor Performance Data

Record # 38693

Typical performance - not guaranteed values

Winding: 12WGY584-R001				Type: 1252M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		40//30		Full Load Torque		59.2 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		90/45//82/41		Breakdown Torque		250 LB-FT	
R.P.M.		3540//2950		Pull-up Torque		85.8 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		118 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		325 A	
Service Factor (S.F.)		1.15		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	
S.F. Amps				Temp. Rise @ S.F. Load		71°C	
				Locked-rotor Power Factor		21	
				Rotor inertia		4.07 LB-FT2	

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	67	83	89	90	91	91	91
Efficiency	84.6	90.4	91.9	92.6	92	91.5	92.2
Speed	3587	3574	3561	3548	3533	3518	3539
Line amperes	16.4	24.7	34.4	44.7	55.9	67.4	51.4

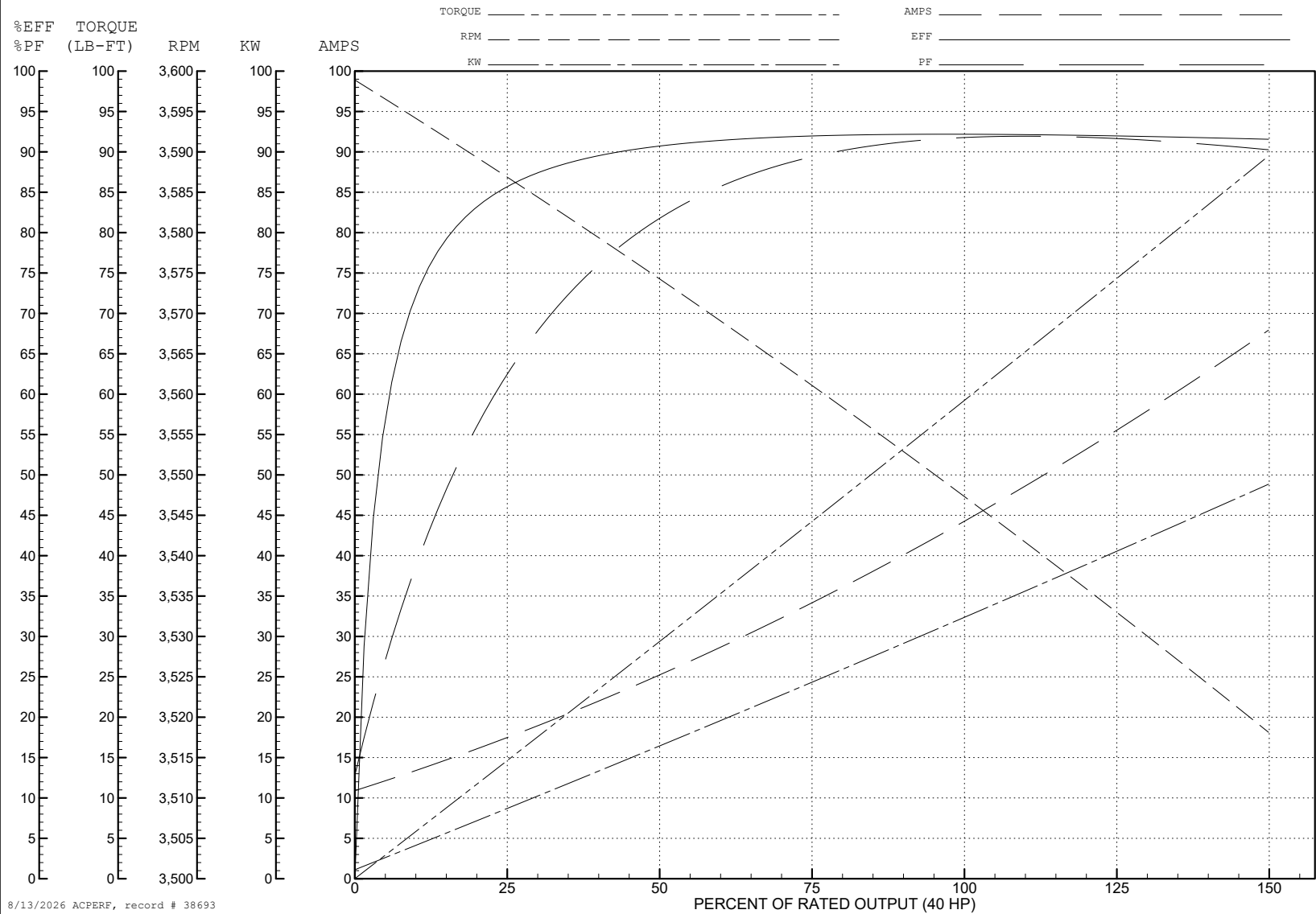
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WINDING # 12WGY584

Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 3548 RPM 460 V 1252M

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



AC Induction Motor Performance Data

Record # 38694

Typical performance - not guaranteed values

Winding: 12WGY584-R001				Type: 1252M		Enclosure: TEFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		40//30		Full Load Torque		53.3 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		90/45//82/41		Breakdown Torque		242 LB-FT	
R.P.M.		3540//2950		Pull-up Torque		91.4 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		126 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		319 A	
Service Factor (S.F.)		1.15		No-load Current		11.6 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		52°C	
S.F. Amps				Temp. Rise @ S.F. Load		62°C	
				Locked-rotor Power Factor		24	
				Rotor inertia		4.07 LB-FT2	

Load Characteristics 380 V, 50 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	82	88	90	91	91	91
Efficiency	81.3	88.2	90.2	91.3	90.9	90.4	91.1
Speed	2988	2976	2965	2953	2940	2927	2945
Line amperes	15.9	23.3	32.1	41.3	51.5	61.8	47.4

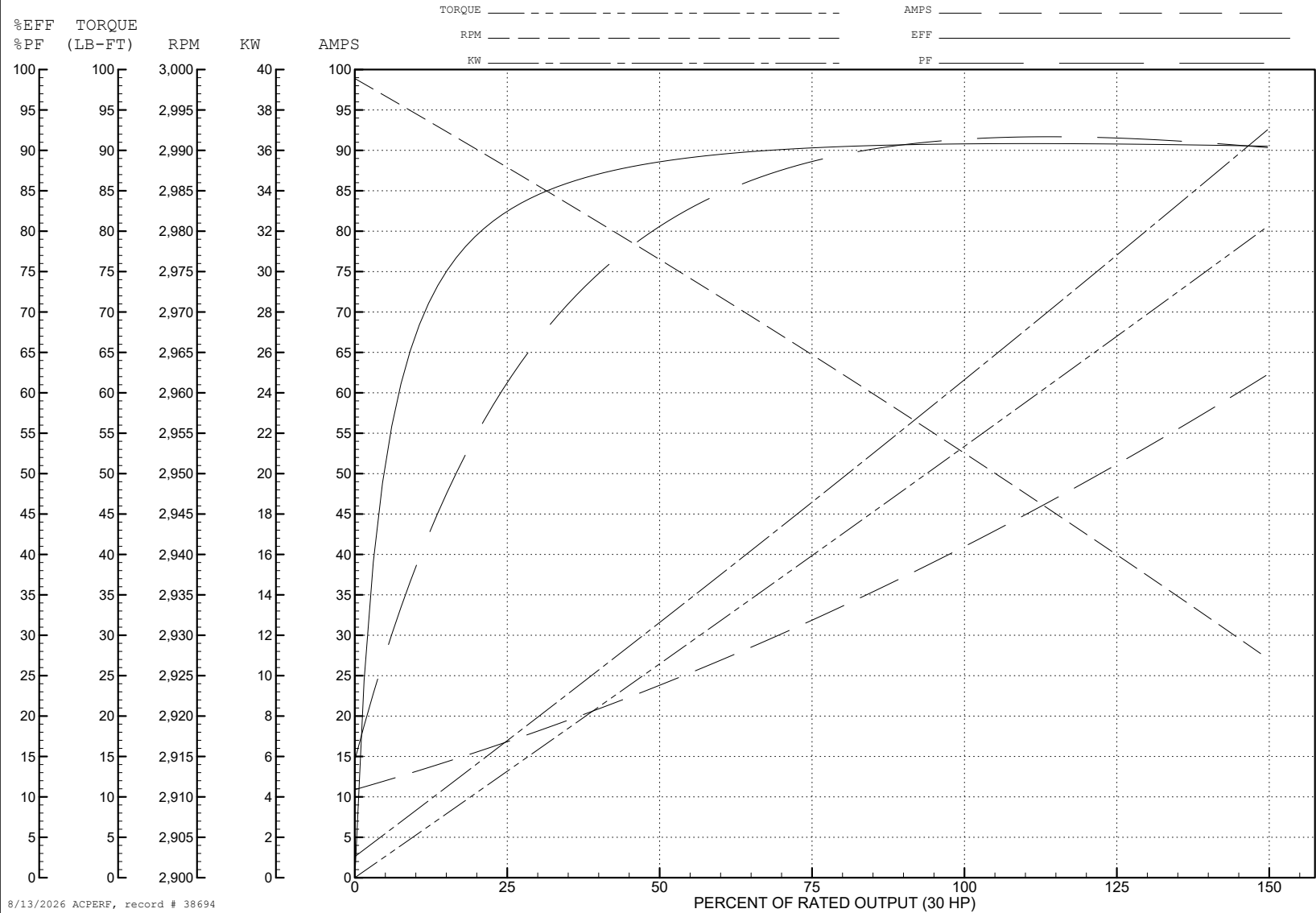
ABB Motors and Mechanical Inc.

WINDING # 12WGY584

Typical performance - not guaranteed values.

30 HP 3 PH 50 HZ 2953 RPM 380 V 1252M

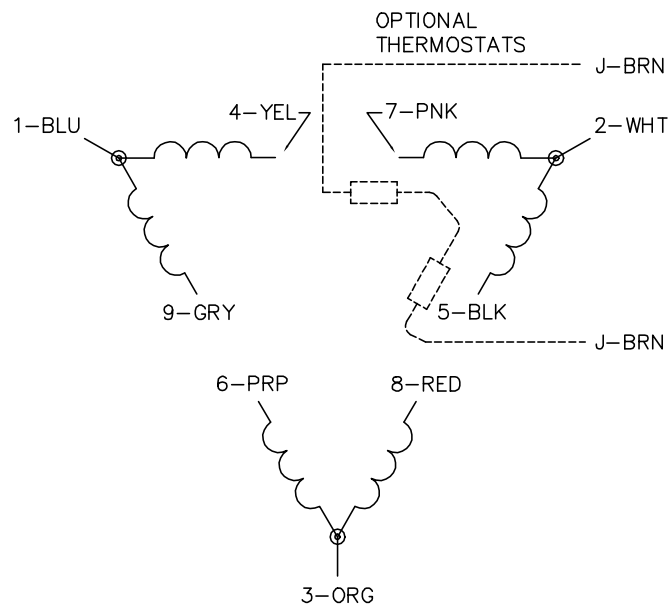
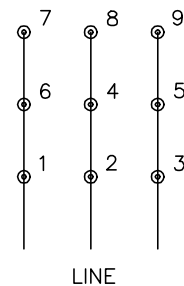
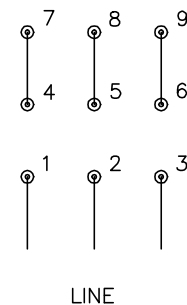
TORQUES (LB-FT): PO=242 PU=91.4 LR=126 LRA=319



REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD			
REV: A	VERSION: 01	REVISED: 07:46:34 12/14/2023	TDR: 00000122022
MODEL NO. 12LYF665			REF: -
BY: USALMAZ			

HORIZ XPFC 324-6TSC CL.I,GP.C&D, DRILL RIG

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.

CD0180

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

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