

ABB BALDOR RELIANCE III

Customer information packet

CFSWDM41908T

68M 2P TEFC HOR 284TSC S/P9-11 SE ALL SS

Specifications

Enclosure	TEFC
Frame	284TSC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA UR NEMA PREMIUM
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	68.000 A @ 230.0 V 34.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	34.0 a
Insulation Class	H
Inverter Code	Inverter Ready

Part Detail

Revision	J
Type	AC
Mech. spec.	40E464
Base	
Status	PRD/A
Elec. spec.	40WGX293
Layout	40LYE464
Eff. date	09-22-2023
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	07-10-2018

KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4068M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	26.77 IN
Power Factor	90
Product Family	WD All SD Non-Encapsulated
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3540 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

NP4427AAA05												
CAT #	CFSWDM41908T						LBS					
SPEC	40E464X293G1						ENCL	TEFC				
SER #							CC	010A	IP	69		
HP	30			MAG CUR			20/10					
VOLTS	230/460						NEMA NOM. EFF		91.7			
AMPS	68/34						PF	90				
RATING	40C AMB-CONT											
RPM	3540						MAX RPM		5400			
FRAME	286TSC		HZ		60		CODE	J	CLASS		H	
SER.F.	1.15		SF AMP						PH	3	DES	A
DE	6311			ODE		6311						
LUBRICATION	POLYREX_SHC_102_EM											
ID LOGO	VPWM	CHP	60	TO	90	1.5:1						
ID LOGO	WK2	2.92	CT	30	TO	60	2:1					
ID LOGO	SL HZ	1	VT	6	TO	60	10:1					

AC Induction Motor Performance Data

Record # 75424

Typical performance - not guaranteed values

Winding: 40WGX293-R001				Type: 4068M		Enclosure: TEFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		30		Full Load Torque		44.54 LB-FT			
Volts		230/460		Start Configuration		direct on line			
Full Load Amps		68/34		Breakdown Torque		166 LB-FT			
R.P.M.		3540		Pull-up Torque		71.9 LB-FT			
Hz		60 Phase		3		Locked-rotor Torque		99.7 LB-FT	
NEMA Design Code		A		KVA Code		J		Starting Current	293 A
Service Factor (S.F.)		1.15		No-load Current		14.1 A			
NEMA Nom. Eff.		91.7		Power Factor		90		Line-line Res. @ 25°C	0.16599 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		90°C			
S.F. Amps				Temp. Rise @ S.F. Load		106°C			
				Locked-rotor Power Factor		22			

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	72	82	86	88	89	87
Efficiency	85.6	90.9	92.1	92.3	91.9	91.3	92.1
Speed	3586.7	3571	3555	3539.6	3522.6	3503.9	3529
Line amperes	16.5	21.6	28	35.4	43.2	51.7	40.1

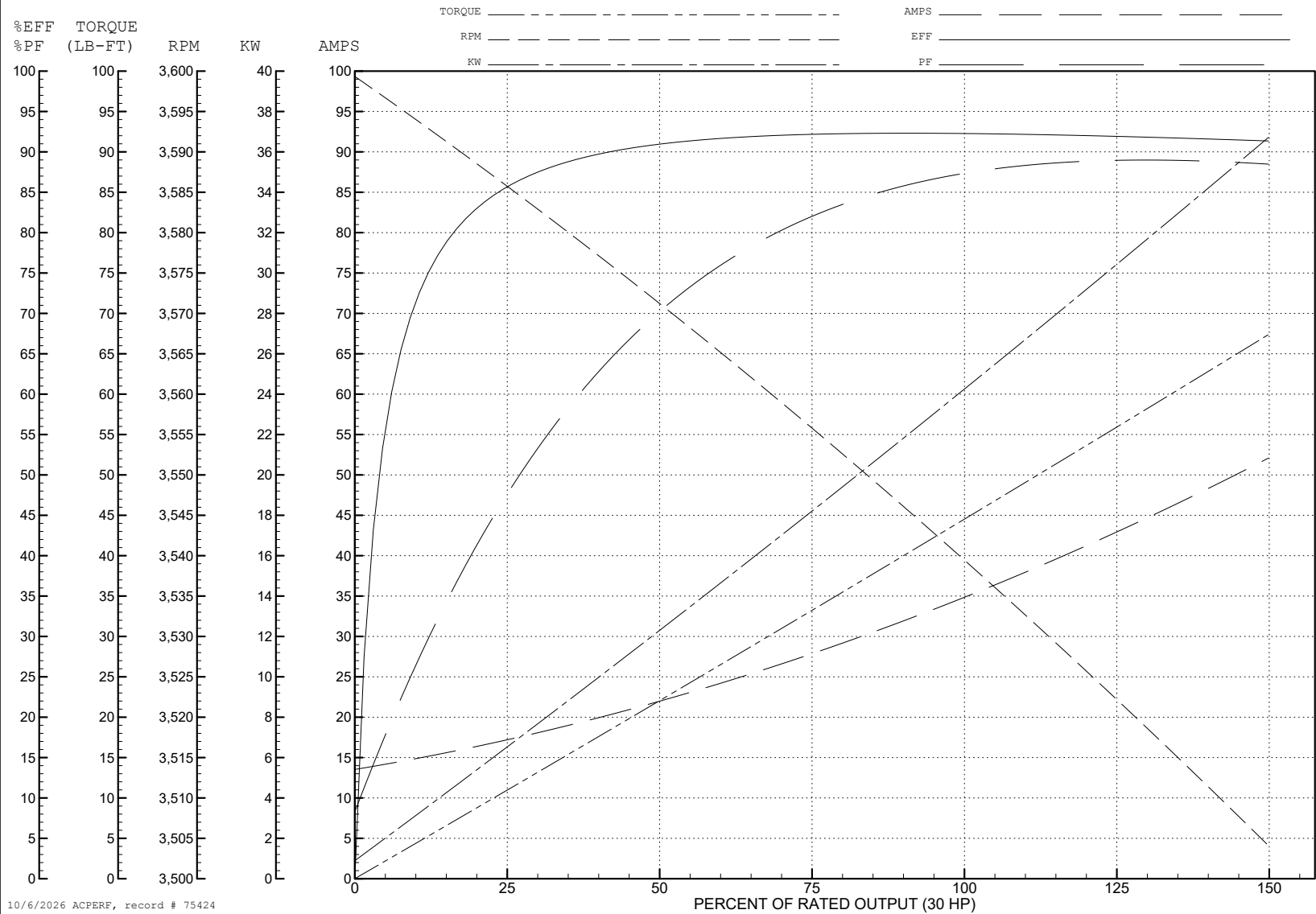
ABB Motors and Mechanical Inc.

WINDING # 40WGX293

Typical performance - not guaranteed values.

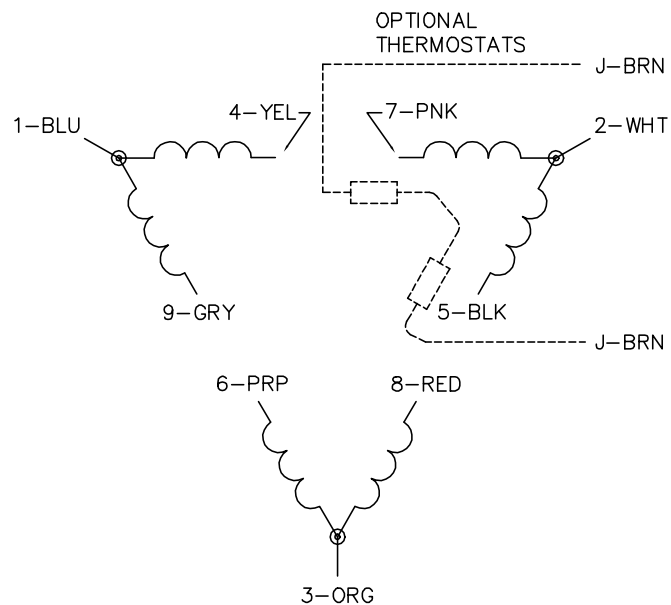
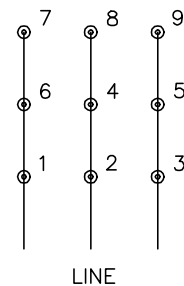
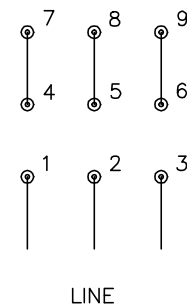
30 HP 3 PH 60 HZ 3540 RPM 460 V 4068M

TORQUES (LB-FT): PO=166 PU=71.9 LR=99.7 LRA=293





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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