

ABB BALDOR RELIANCE III

Customer information packet

CFSWDM41907T

56M 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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
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	56.000 A @ 230.0 V 28.000 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	28.0 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing

Part Detail

Revision	H
Type	AC
Mech. spec.	40E464
Base	
Status	PRD/A
Elec. spec.	40WGX294
Layout	40LYE464
Eff. date	09-22-2023
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	07-10-2018

Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4056M
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
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3530 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4427AAA05														
CAT #	CFSWDM41907T						LBS							
SPEC	40E464X294G1						ENCL	TEFC						
SER #							CC	010A	IP	69				
HP	25			MAG CUR			23/11.5							
VOLTS	230/460						NEMA NOM. EFF				91.7			
AMPS	60/30						PF	86						
RATING	40C AMB-CONT													
RPM	3530						MAX RPM		5400					
FRAME	284TSC		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	2.42	CT	30	TO	60	2:1							
ID LOGO	SL HZ	1.2	VT	6	TO	60	10:1							

AC Induction Motor Performance Data

Record # 80199

Typical performance - not guaranteed values

Winding: 40WGX294-R001			Type: 4056M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		25		Full Load Torque		36.98 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		60/30		Breakdown Torque		146 LB-FT	
R.P.M.		3530		Pull-up Torque		58.9 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		77.9 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		226 A
Service Factor (S.F.)		1.15		No-load Current		11.8 A	
NEMA Nom. Eff.		91.7	Power Factor	86	Line-line Res. @ 25°C		0.22479 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		69°C	
S.F. Amps				Temp. Rise @ S.F. Load		82°C	
				Locked-rotor Power Factor		22.7	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	71	81	86	88	89	87
Efficiency	84.4	90.3	91.7	91.9	91.6	90.9	91.7
Speed	3583.8	3569	3553.9	3538.4	3522.7	3505.8	3529
Line amperes	13.8	18.1	23.5	29.7	36.3	43.4	33.7

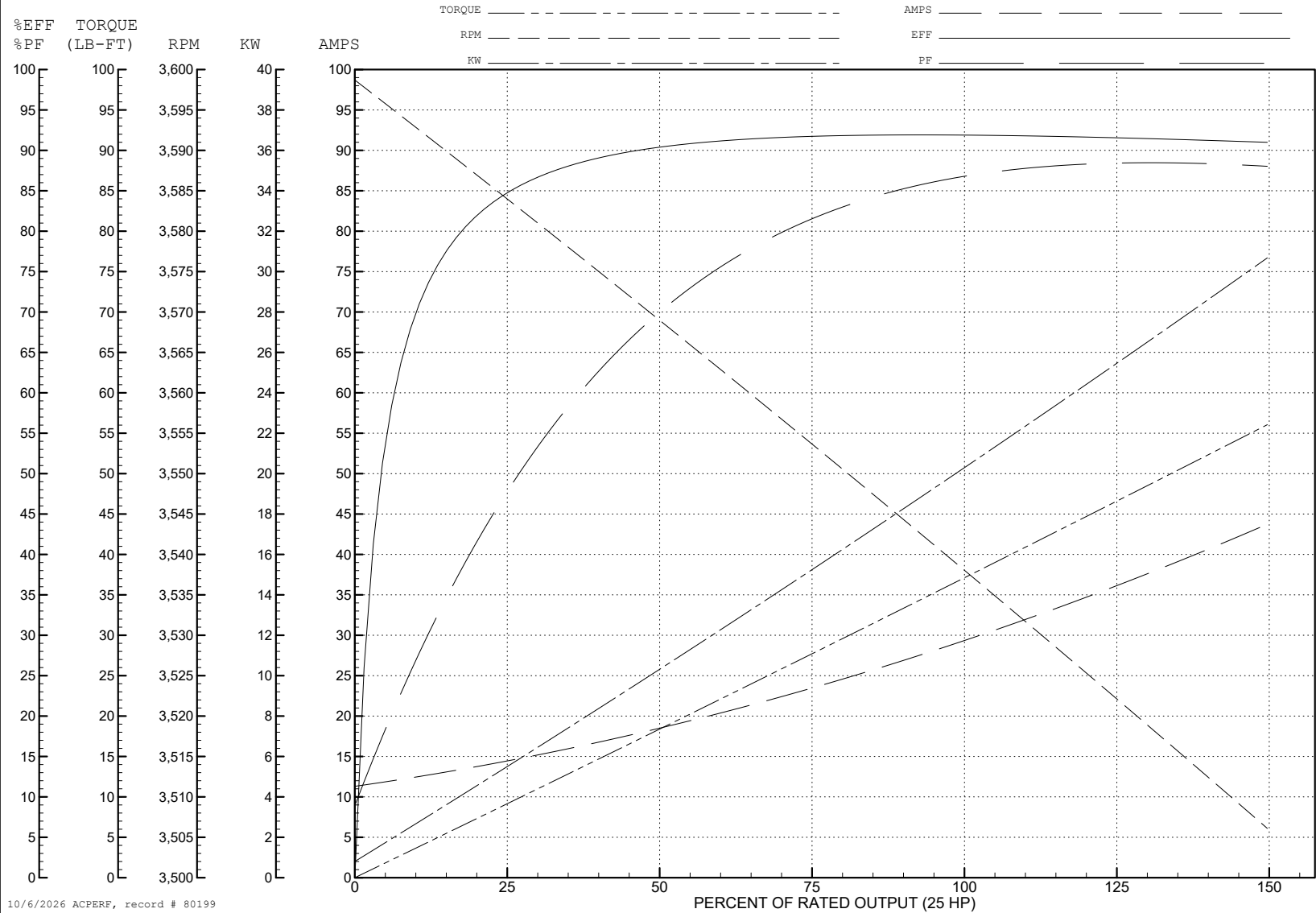
ABB Motors and Mechanical Inc.

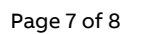
WINDING # 40WGX294

Typical performance - not guaranteed values.

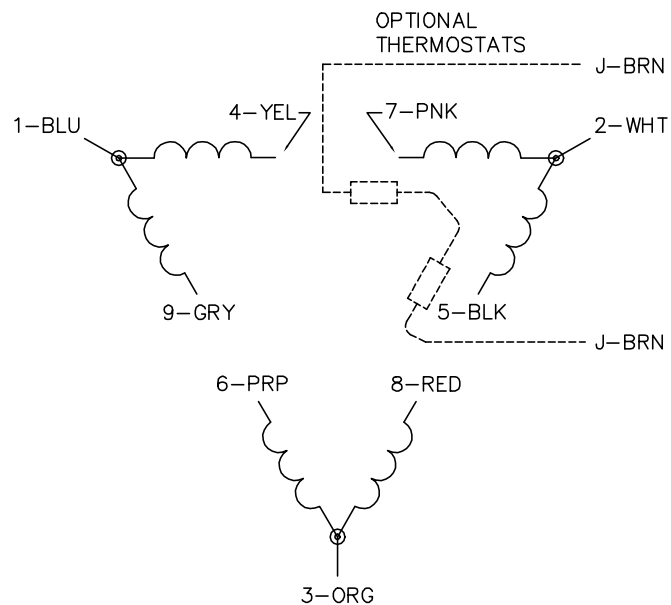
25 HP 3 PH 60 HZ 3530 RPM 460 V 4056M

TORQUES (LB-FT): PO=146 PU=58.9 LR=77.9 LRA=226

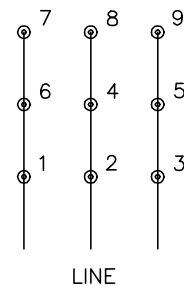




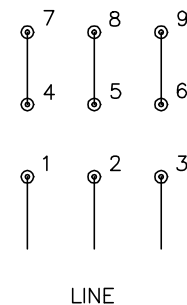
CD0180



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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