

ABB BALDOR RELIANCE III

Customer information packet

CEM4111T-G

25HP, 1180RPM, 3PH, 60HZ, 324TC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	324TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM 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	63.000 A @ 230.0 V 32.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	32.0 a

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY116
Layout	12LYH471
Eff. date	06-11-2025
CD Diagram	CD0180
Poles	06
Leads	9#8
Proprietary	False
Created date	03-06-2020

Insulation Class	H
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1260M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	30.28 IN
Power Factor	79
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 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

NP3443LUA												
CAT.NO.	CEM4111T-G			CUST. P/N				ENCL				TEFC
SPEC.	12-0000-1537	CC	010A	FRAME	324TC	SER.NO.						
HP	25		CLASS	H	HZ	60						
R.P.M.	1180		PH.	3	DES.	A						
VOLTS	230/460		CODE		H	ODE BRG		6311	DE BRG	6312		
AMPS	63/32											
RATING	40C AMB-CONT		NEMA NOM. EFF.			93	GREASE		POLYREX EM			
P.F.	79	SER.F.	1.15	CT6-60H(10:1)VT3-60H(20:1								
USABLE AT	50HZ 25HP 190/380V 76/38A			SF1.0								
VOLTS	AMPS	MAX. SPACE HEATER TEMP.										

AC Induction Motor Performance Data

Record # 47247

Typical performance - not guaranteed values

Winding: 12WGY116-R017			Type: 1260M		Enclosure: TEFC			
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.)		1.15		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		
S.F. Amps				Temp. Rise @ S.F. Load		56°C		
				Rotor inertia		11.5 LB-FT2		

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	75	79	81	81	80
Efficiency	89.1	92.8	93.5	93.2	92.6	91.5	92.8
Speed	1195.4	1191.8	1188.2	1183.9	1179.3	1172.9	1181
Line amperes	15.6	19.7	25.4	31.9	39.2	49.1	36.3

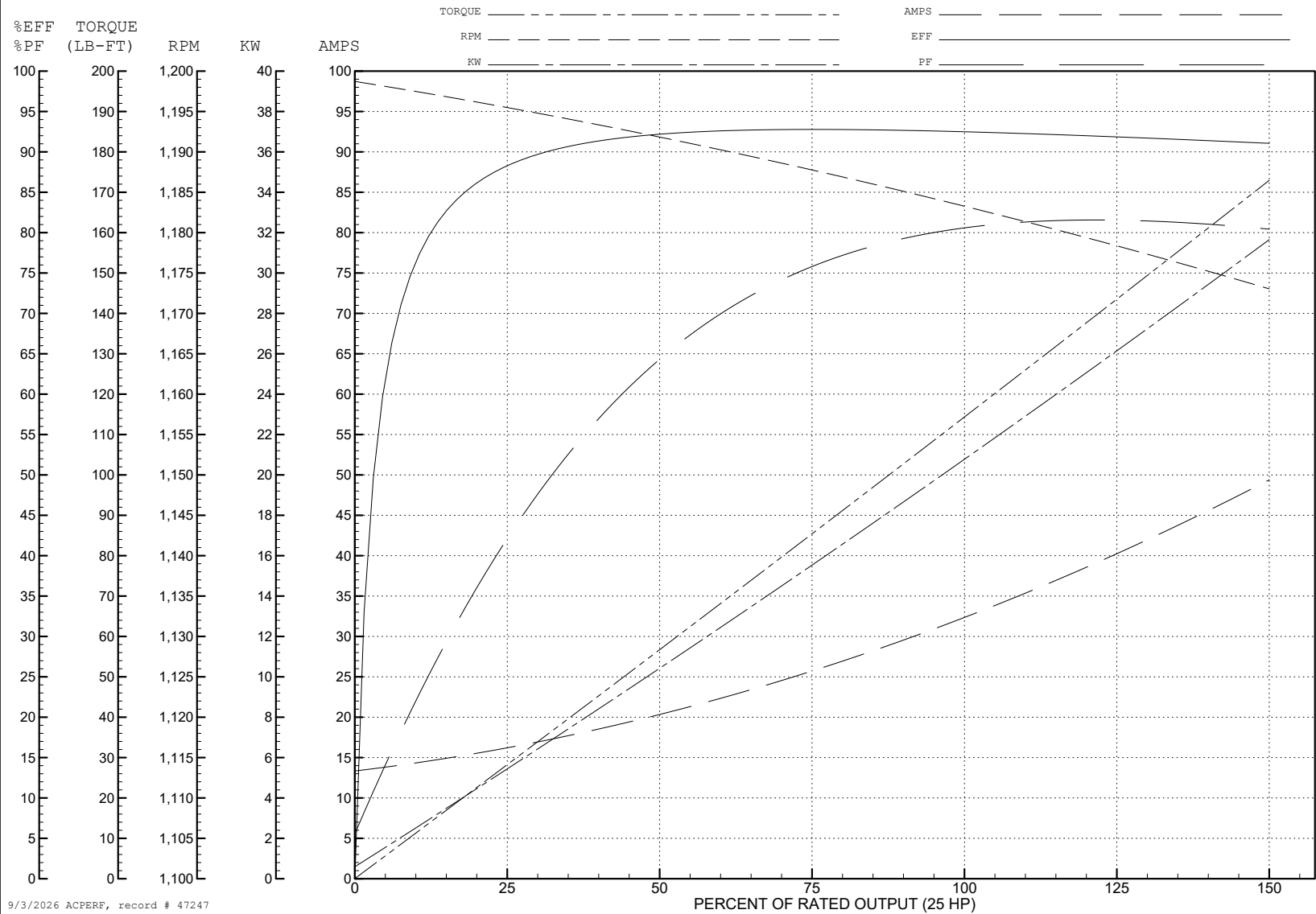
ABB Motors and Mechanical Inc.

WINDING # 12WGY116

Typical performance - not guaranteed values.

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

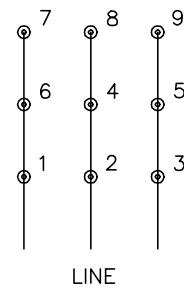
TORQUES (LB-FT): PO=308 PU=117 LR=171 LRA=198



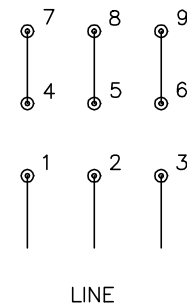
CD0180



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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