

ABB BALDOR RELIANCE III

Customer information packet

AEM4104-4

30HP, 1775RPM, 3PH, 60HZ, 326U, 1250M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	326U
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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	65 °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	35.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	35.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	AD
Type	AC
Mech. spec.	12H79
Base	
Status	PRD/A
Elec. spec.	12WGX202
Layout	12LYH079
Eff. date	08-01-2023
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	01-01-0001

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 8 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1250M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.66 IN
Power Factor	86
Product Family	Automotive (Not For DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
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	1775 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1404									
CAT.NO.	AEM4104-4								
SPEC.	12H079X202G1								
VOLTS	460								
AMP	35								
RPM	1775		HP	30					
FRAME	326U	HZ	60		PH	3			
SER.F.	1.00	CODE	G	DES	B	CL	F		
NEMA-NOM-EFF	93.6	PF	86						
G.MIN.EFF	92.4	CC	010A						
RATING	65C AMB-CONT								
LUBRICATION	POLYREX EM								
DE	6312	ODE	6311						
ENCL	TEFC	SER. #							

Accessories

Part number	Description	Multiplier
12-1105	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 3386

Typical performance - not guaranteed values

Winding: 12WGX202-R001			Type: 1250M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		30	Full Load Torque		89 LB-FT	
Volts		460	Start Configuration		direct on line	
Full Load Amps		35	Breakdown Torque		256 LB-FT	
R.P.M.		1775	Pull-up Torque		104 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		140 LB-FT
NEMA Design Code		B	KVA Code		G	
Service Factor (S.F.)		1	Starting Current		218 A	
NEMA Nom. Eff.		93.6	Power Factor		86	
Rating - Duty		65C AMB-CONT		Temp. Rise @ Rated Load		54°C
				Locked-rotor Power Factor		27
				Rotor inertia		6.66 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	57	77	84	86	87	86
Efficiency	88.3	92.7	93.7	93.8	93.5	92.9
Speed	1794	1789	1782	1776	1770	1762
Line amperes	14.2	19.9	27.1	35.2	43.5	52.5

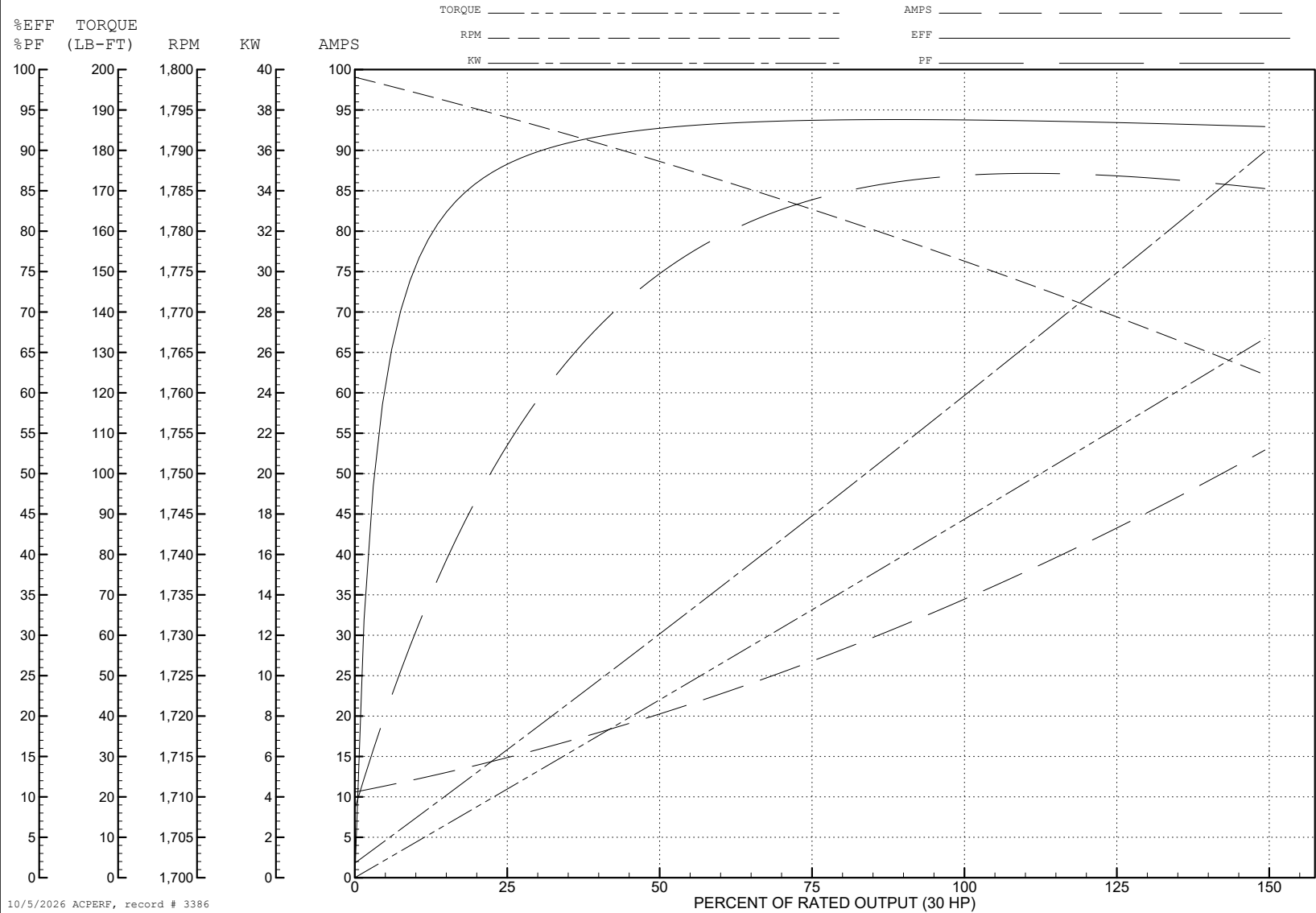
ABB Motors and Mechanical Inc.

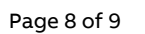
WINDING # 12WGX202

Typical performance - not guaranteed values.

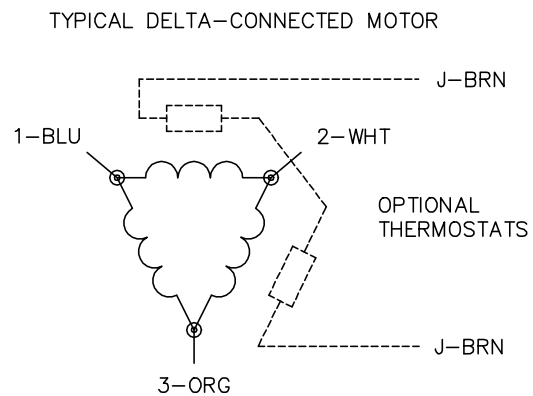
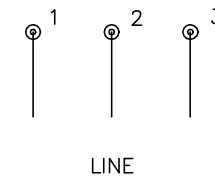
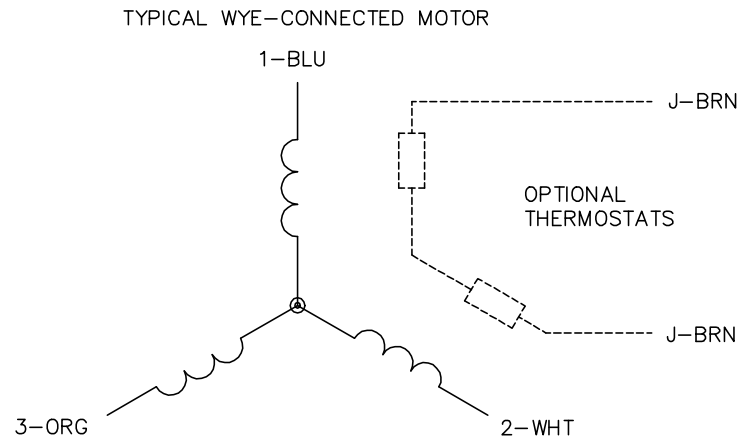
30 HP 3 PH 60 HZ 1775 RPM 460 V 1250M

TORQUES (LB-FT): PO=256 PU=104 LR=140 LRA=218





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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