

ABB BALDOR RELIANCE III

Customer information packet

CXM32442T

40//30HP, 1775//1480RPM, 3PH, 60//50HZ, 324T

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	324TC
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 50 HZ 40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
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
Constant Torque Speed Range	6
Current @ Voltage	96.000 A @ 230.0 V 90.000 A @ 190.0 V 48.000 A @ 460.0 V 45.000 A @ 380.0 V 102.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY276
Layout	12LY-000-644
Eff. date	05-07-2026
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	02-17-2021

Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	45.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1254M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	32.00 IN
Power Factor	82
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1775 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

NP0887XPSLEV											
NO.						CC	010A				
S/N						TEMP CODE		T3C			
SPEC.	12-0000-2029					INV.TYPE		PWM			
CAT.NO.	CXM32442T					C HP FR		60	C HP TO		90
HP	40//30					CT HZ FROM		6	CT HZ TO		60
VOLTS	230/460//190/380					VT HZ FROM		6	VT HZ TO		60
AMPS	96/48//90/45				MAG CUR		39/19.5				
RPM	1775//1480				MX RPM		2700				
HZ	60//50	PH	3	CL	F	NOM.EFF.		94.1			
SER.F.	1.15	DES	A	SL HZ		0.83	WK2	7.19			
FRAME	324TC	RATING		40C AMB-CONT							
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE										

AC Induction Motor Performance Data

Record # 43813

Typical performance - not guaranteed values

Winding: 12WGY276-R023				Type: 1254M		Enclosure: XPFC					
Nameplate Data				460 V, 60 Hz: High Voltage Connection							
Rated Output (HP)		40		Full Load Torque		118 LB-FT					
Volts		230/460		Start Configuration		direct on line					
Full Load Amps		96/48		Breakdown Torque		386 LB-FT					
R.P.M.		1775		Pull-up Torque		193 LB-FT					
Hz		60 Phase		3		Locked-rotor Torque		216 LB-FT			
NEMA Design Code		A		KVA Code		H		Starting Current		338 A	
Service Factor (S.F.)		1		No-load Current		19.9 A					
NEMA Nom. Eff.		94.1		Power Factor		82		Line-line Res. @ 25°C		0.14898 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C					
				Locked-rotor Power Factor		27					
				Rotor inertia		7.19 LB-FT2					

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	47	69	78	83	85	85
Efficiency	90.1	93.5	94.2	94.2	93.8	93.1
Speed	1793.5	1788	1782.5	1776.6	1770.7	1764.1
Line amperes	22.9	29.5	38.4	48.1	59.2	70.8

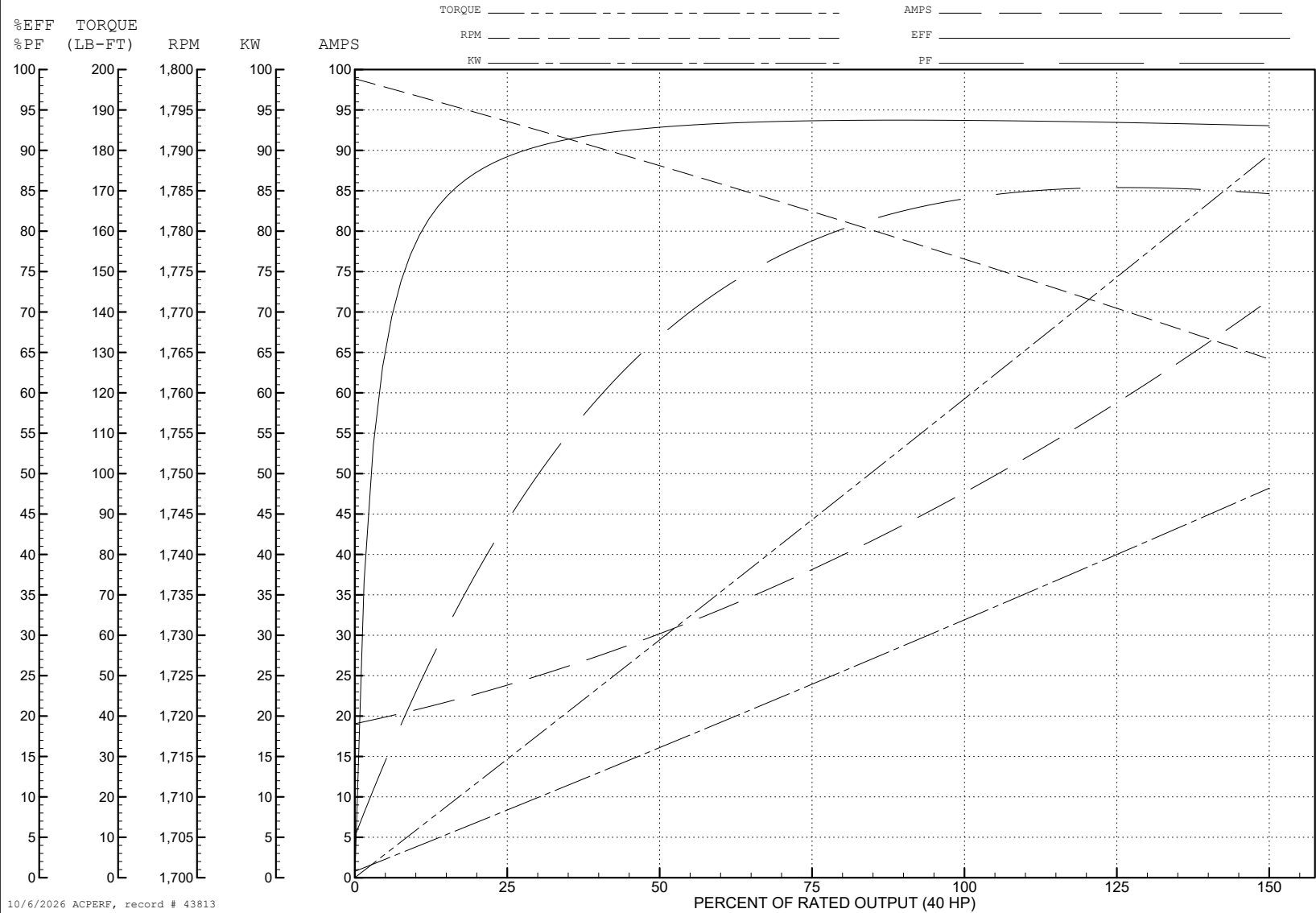
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WINDING # 12WGY276

Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 1775 RPM 460 V 1254M

TORQUES (LB-FT): PO=386 PU=193 LR=216 LRA=338



AC Induction Motor Performance Data

Record # 75684

Typical performance - not guaranteed values

Winding: 12WGY276-R040				Type: 1254M		Enclosure: XPFC		
Nameplate Data				380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		40//30		Full Load Torque		107 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		96/48//90/45		Breakdown Torque		383 LB-FT		
R.P.M.		1775//1480		Pull-up Torque		208 LB-FT		
Hz		60//50 Phase		3		Locked-rotor Torque		233 LB-FT
NEMA Design Code		A KVA Code		H		Starting Current		340 A
Service Factor (S.F.)		1		No-load Current		20.49 A		
NEMA Nom. Eff.		94.1 Power Factor		82		Line-line Res. @ 25°C		0.145 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		47°C		
S.F. Amps				Temp. Rise @ S.F. Load		57°C		
				Locked-rotor Power Factor		30.4		
				Rotor inertia		7.19 LB-FT2		

Load Characteristics 380 V, 50 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	42	65	75	81	83	85
Efficiency	89.7	93.3	94	94	93.5	92.5
Speed	1495	1489	1485	1479	1474	1469
Line amperes	22.95	28.58	36.28	44.78	54.64	64.99

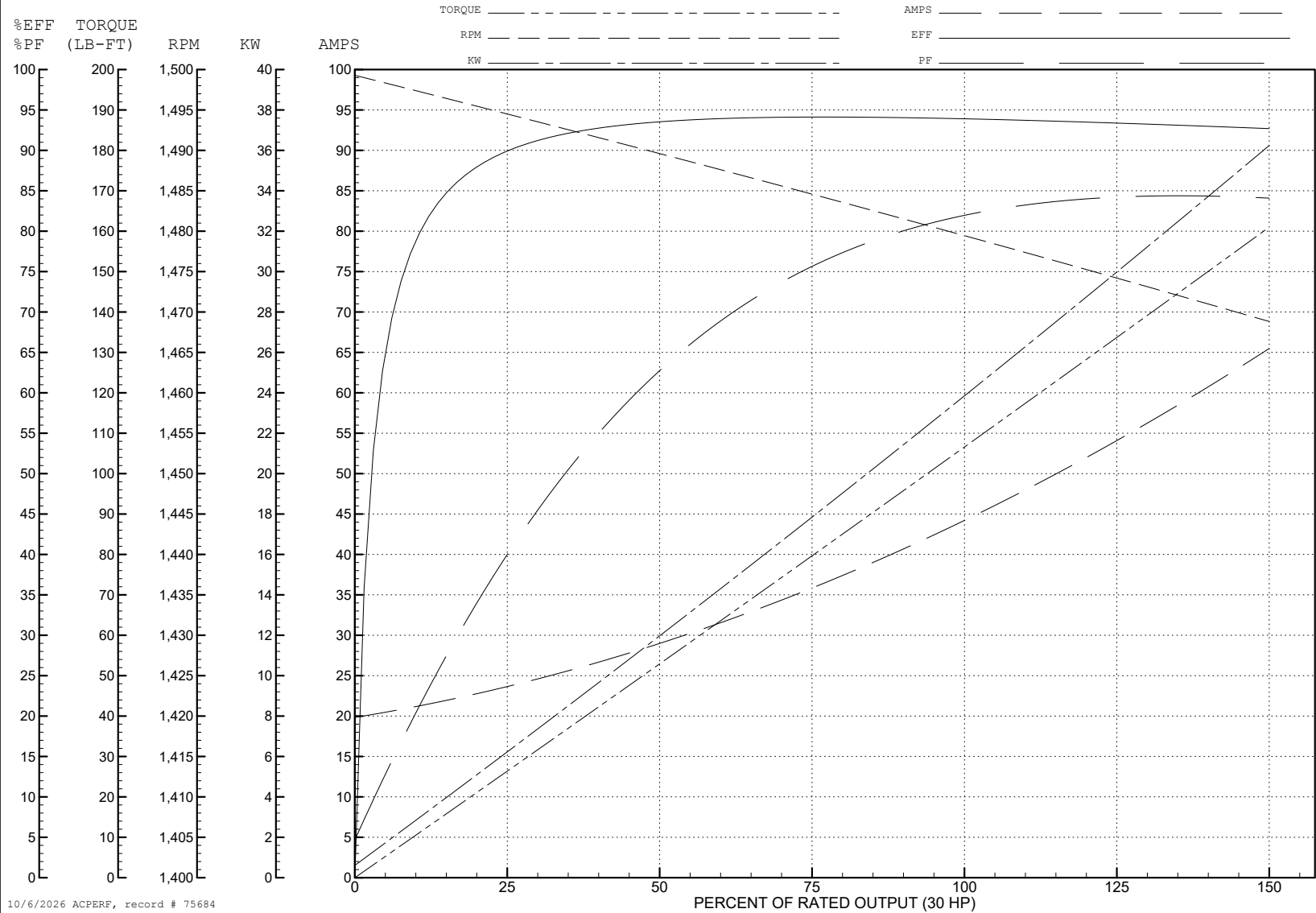
ABB Motors and Mechanical Inc.

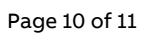
WINDING # 12WGY276

Typical performance - not guaranteed values.

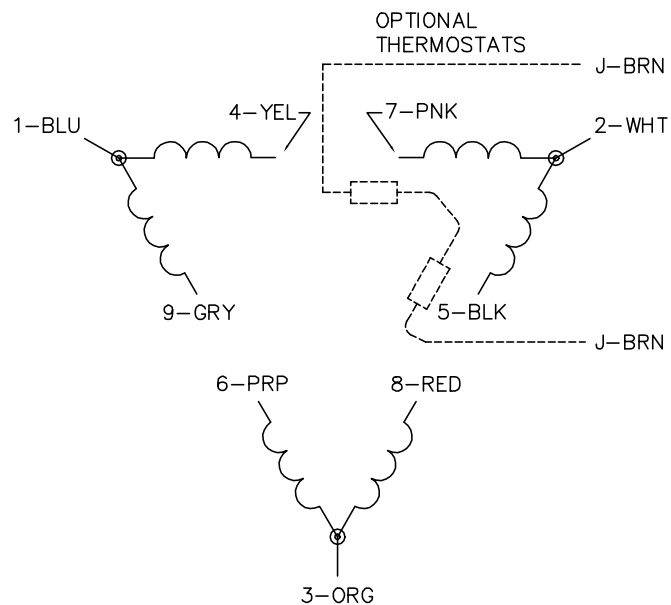
30 HP 3 PH 50 HZ 1479 RPM 380 V 1254M

TORQUES (LB-FT): PO=383 PU=208 LR=233 LRA=340

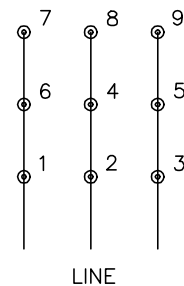




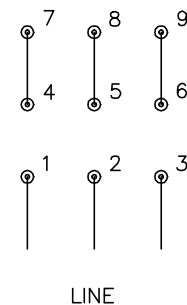
CD0180



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.

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

SH 1 of 1

CD0180