

ABB BALDOR RELIANCE III

Customer information packet

EM7064T-I

50//40HP, 1775//1475RPM, 3PH, 60//50HZ, 326T

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	326T
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	50.000 HP @ 60 HZ 40.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	UL CSA CSA EEV 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	114.000 A @ 190.0 V 118.000 A @ 230.0 V 126.000 A @ 208.0 V 57.000 A @ 380.0 V 59.000 A @ 460.0 V
Design Code	A

Part Detail

Revision	X
Type	AC
Mech. spec.	12S077
Base	
Status	PRD/A
Elec. spec.	12WGY585
Layout	12LYS077
Eff. date	02-21-2024
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	06-05-2012

Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	57.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X1276M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	32.00 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1475 rpm
	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

NP0977XPSLEV												
NO.							CC	010A				
SER.							TEMP CODE	T3C				
SPEC.	12S077Y585G1											
CAT.NO.	EM7064T-I											
HP	50//40 NEMA MG-1 PT.5,IP55											
VOLTS	230/460//190/380											
AMPS	118/59//114/57											
RPM	1775//1475					MOTOR WEIGHT			645			
HERTZ	60//50	PH	3	CL	F	DE BRG	6312					
SER.F.	1.15	DES	A	CODE	J	ODE BRG	6311					
FRAME	326T	GREASE		POLYREX EM								
RATING	40C AMB-CONT											
					NEMA-NOM-EFF			94.5		PF	84	
	55C AMB @ 1.0 SF,60C RISE											

AC Induction Motor Performance Data

Record # 39101

Typical performance - not guaranteed values

Winding: 12WGY585-R001				Type: 1276M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		50//40		Full Load Torque		148 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		118/59//114/57		Breakdown Torque		561 LB-FT	
R.P.M.		1775//1475		Pull-up Torque		236 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		279 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		475 A
Service Factor (S.F.)		1.15		No-load Current		25 A	
NEMA Nom. Eff.		94.5	Power Factor	84	Line-line Res. @ 25°C		0.096885 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		56°C	
S.F. Amps				Temp. Rise @ S.F. Load		67°C	
				Locked-rotor Power Factor		26	
				Rotor inertia		10.1 LB-FT2	

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	68	78	84	85	87	85
Efficiency	90	93.7	94.6	94.7	94.4	93.9	94.5
Speed	1794	1789.1	1784.4	1779.2	1773.7	1767.4	1776
Line amperes	28.6	36.9	47.3	59.1	72.4	86.3	67.1

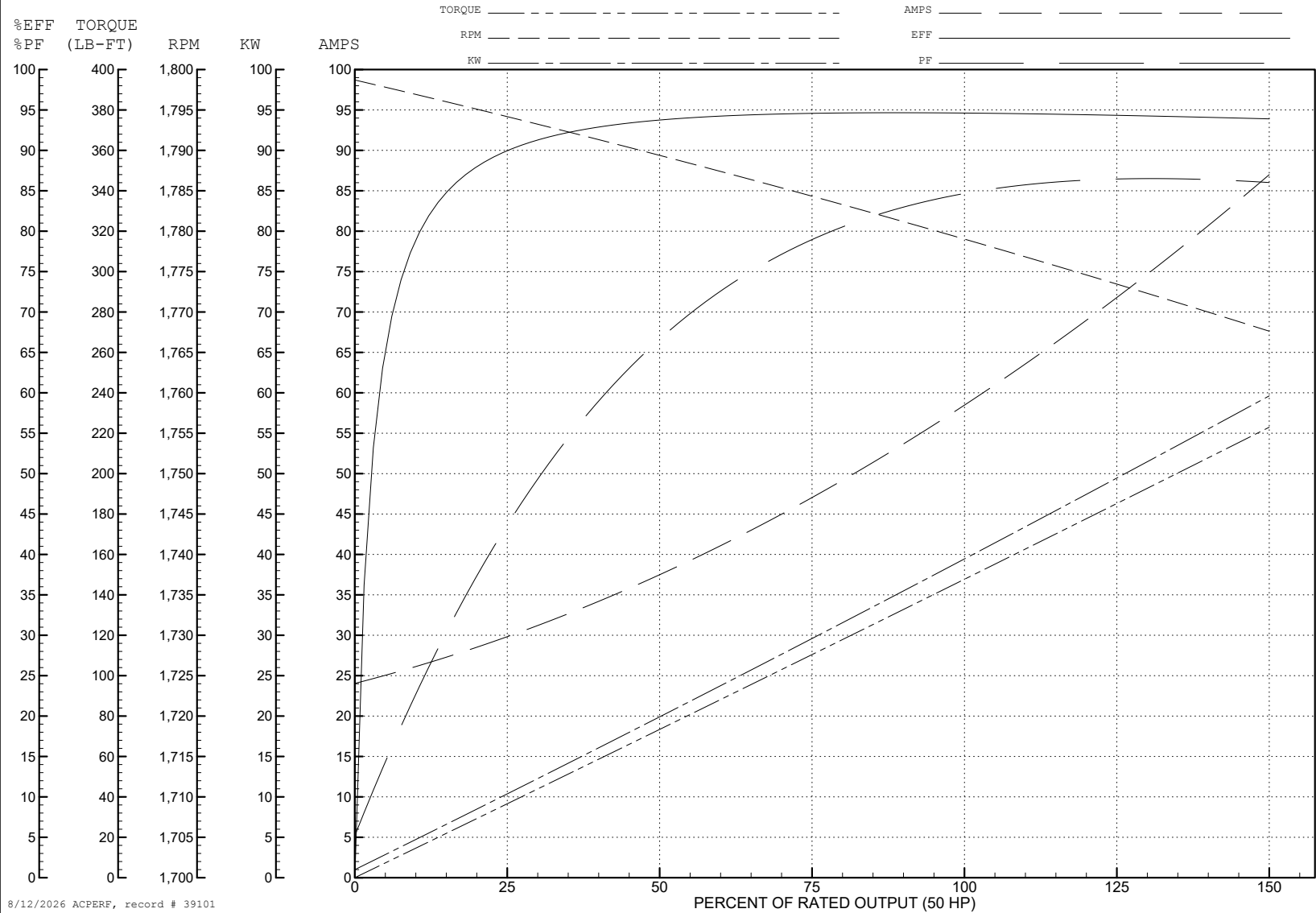
ABB Motors and Mechanical Inc.

WINDING # 12WGY585

Typical performance - not guaranteed values.

50 HP 3 PH 60 HZ 1779.2 RPM 460 V 1276M

TORQUES (LB-FT) : PO=561 PU=236 LR=279 LRA=475



AC Induction Motor Performance Data

Record # 39102

Typical performance - not guaranteed values

Winding: 12WGY585-R001				Type: 1276M		Enclosure: XPFC			
Nameplate Data				380 V, 50 Hz: High Voltage Connection					
Rated Output (HP)		50//40		Full Load Torque		142 LB-FT			
Volts		230/460//190/380		Start Configuration		direct on line			
Full Load Amps		118/59//114/57		Breakdown Torque		544 LB-FT			
R.P.M.		1775//1475		Pull-up Torque		248 LB-FT			
Hz		60//50 Phase		3		Locked-rotor Torque		293 LB-FT	
NEMA Design Code		A		KVA Code		J		Starting Current	465 A
Service Factor (S.F.)		1.15						No-load Current	24.5 A
NEMA Nom. Eff.		94.5		Power Factor		84		Line-line Res. @ 25°C	0.0926 Ω
Rating - Duty		40C AMB-CONT						Temp. Rise @ Rated Load	52°C
S.F. Amps								Temp. Rise @ S.F. Load	63°C
								Locked-rotor Power Factor	29
								Rotor inertia	10.1 LB-FT2

Load Characteristics 380 V, 50 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	78	84	86	87	85
Efficiency	90.7	94	94.8	94.6	94.3	93.6	94.4
Speed	1495	1490	1485	1480	1475	1469	1477
Line amperes	27.9	35.8	45.9	57.3	70.3	83.8	65.1

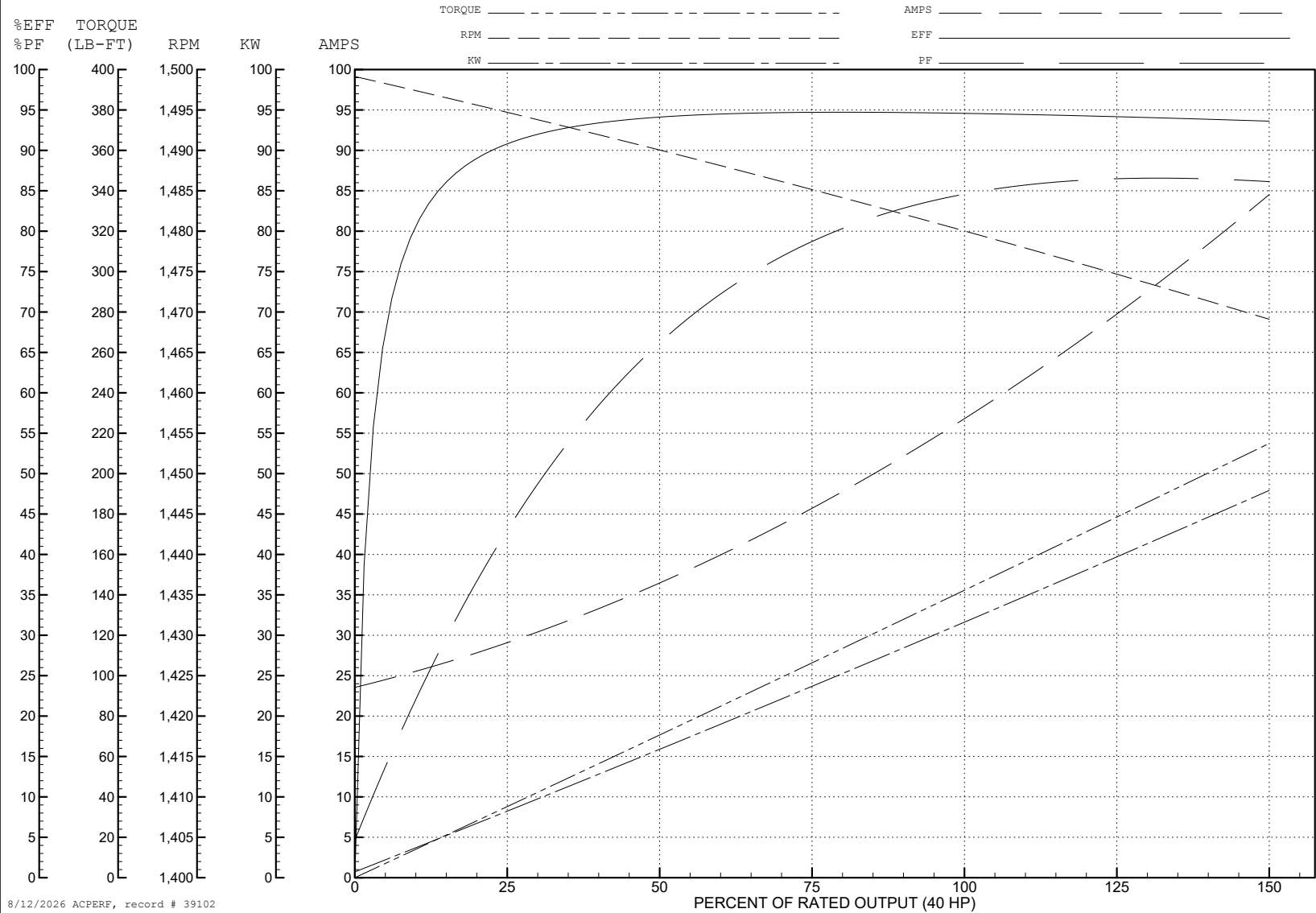
ABB Motors and Mechanical Inc.

WINDING # 12WGY585

Typical performance - not guaranteed values.

40 HP 3 PH 50 HZ 1480 RPM 380 V 1276M

TORQUES (LB-FT): PO=544 PU=248 LR=293 LRA=465





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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