



Customer information packet

VDRX32544T

50HP, 1775//1475RPM, 3PH, 60/50HZ, 326TC, XPF

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	326TC
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	1800 RPM @ 50 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	114.000 A @ 190.0 V 118.000 A @ 230.0 V 57.000 A @ 380.0 V 59.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY585
Layout	12LYE292
Eff. date	07-22-2025
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	06-06-2019

Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	57.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1276M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	32.00 IN
Power Factor	84
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
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

NP1401XPSLEV											
NO.						CC	010A				
S/N						TEMP CODE	T3C				
SPEC.	12-0000-0767					INV.TYPE	PWM				
CAT.NO.	VDRX32544T					C HP FR	60	C HP TO	90		
HP	50//40					CT HZ FROM	6	CT HZ TO	60		
VOLTS	230/460//190/380					VT HZ FROM	6	VT HZ TO	60		
AMPS	118/59//114/57				MAG CUR	50/25					
RPM	1775//1475				MX RPM	2700					
HZ	60//50	PH	3	CL	F	NOM.EFF.	94.5				
SER.F.	1.00	DES	A	SL HZ	0.83	WK2	10.1				
FRAME	326TC	RATING		40C AMB-CONT							
	55C AMB @ 1.0 SF, 60C RISE										
	1.15SF ON SINEWAVE				NEMA MG-1 PT.5,IP55						

AC Induction Motor Performance Data

Record # 60172

Typical performance - not guaranteed values

Winding: 12WGY585-R008				Type: 1276M		Enclosure: XPFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		50		Full Load Torque		148 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		118/59		Breakdown Torque		561 LB-FT		
R.P.M.		1775		Pull-up Torque		236 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		279 LB-FT		
NEMA Design Code		A		KVA Code	J		Starting Current	475 A
Service Factor (S.F.)		1		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		
				Locked-rotor Power Factor		26.4		
				Rotor inertia		10.1 LB-FT2		

Load Characteristics 460 V, 60 Hz, 50 HP

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

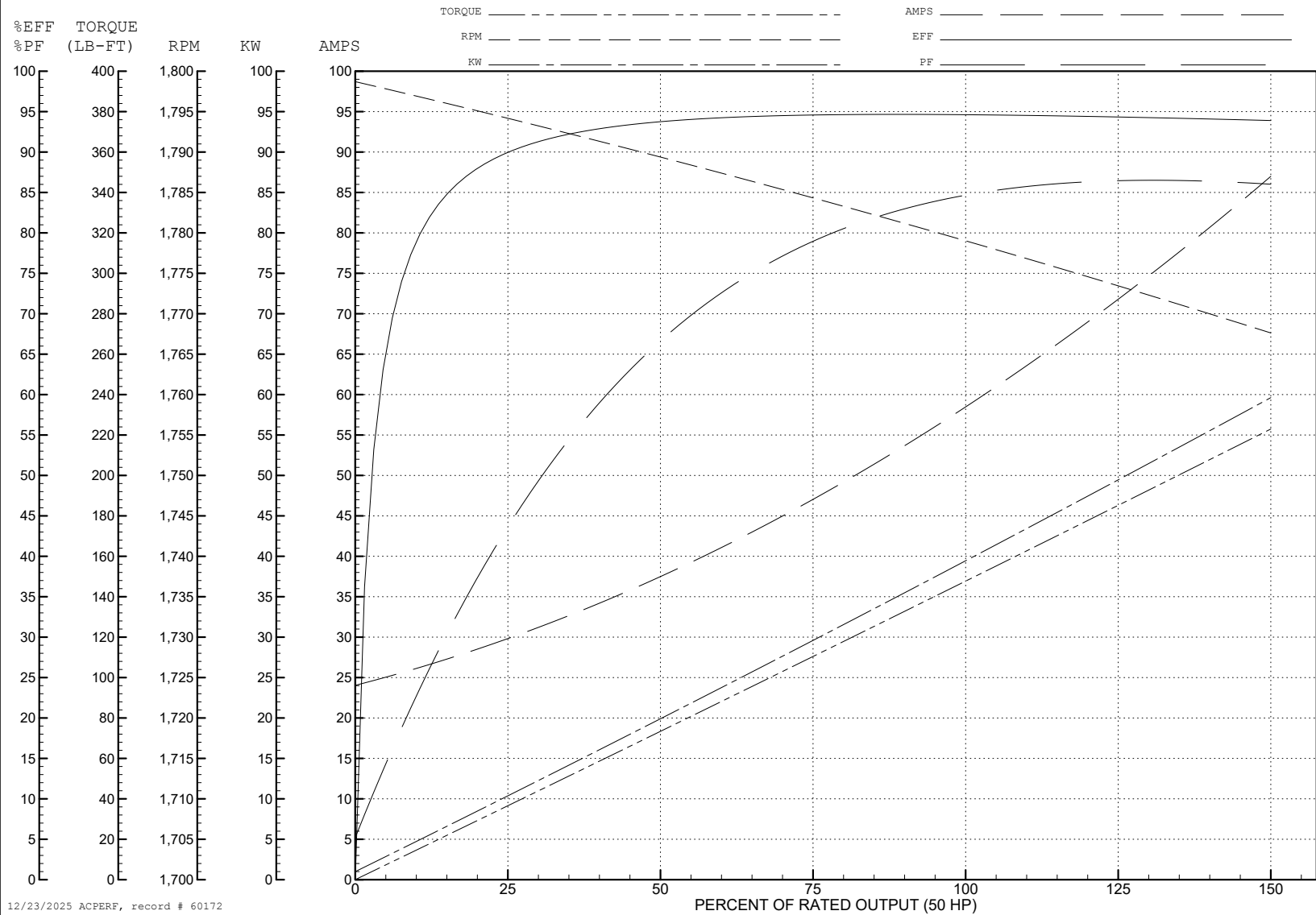
ABB Motors and Mechanical Inc.

WINDING # 12WGY585

Typical performance - not guaranteed values.

50 HP 3 PH 60 HZ 1775 RPM 460 V 1276M

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



AC Induction Motor Performance Data

Record # 74482

Typical performance - not guaranteed values

Winding: 12WGY585-R011			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	No-load Current		24.51 A	
NEMA Nom. Eff.		94.5	Power Factor	84	Line-line Res. @ 25°C		0.0936 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	29.3
						Rotor inertia	10.1 LB-FT2

Load Characteristics 380 V, 50 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	45	67	78	84	86	87
Efficiency	90.3	93.7	94.6	94.3	94.2	93.2
Speed	1494	1490	1485	1480	1475	1469
Line amperes	27.9	35.86	45.89	57.36	70.22	83.76

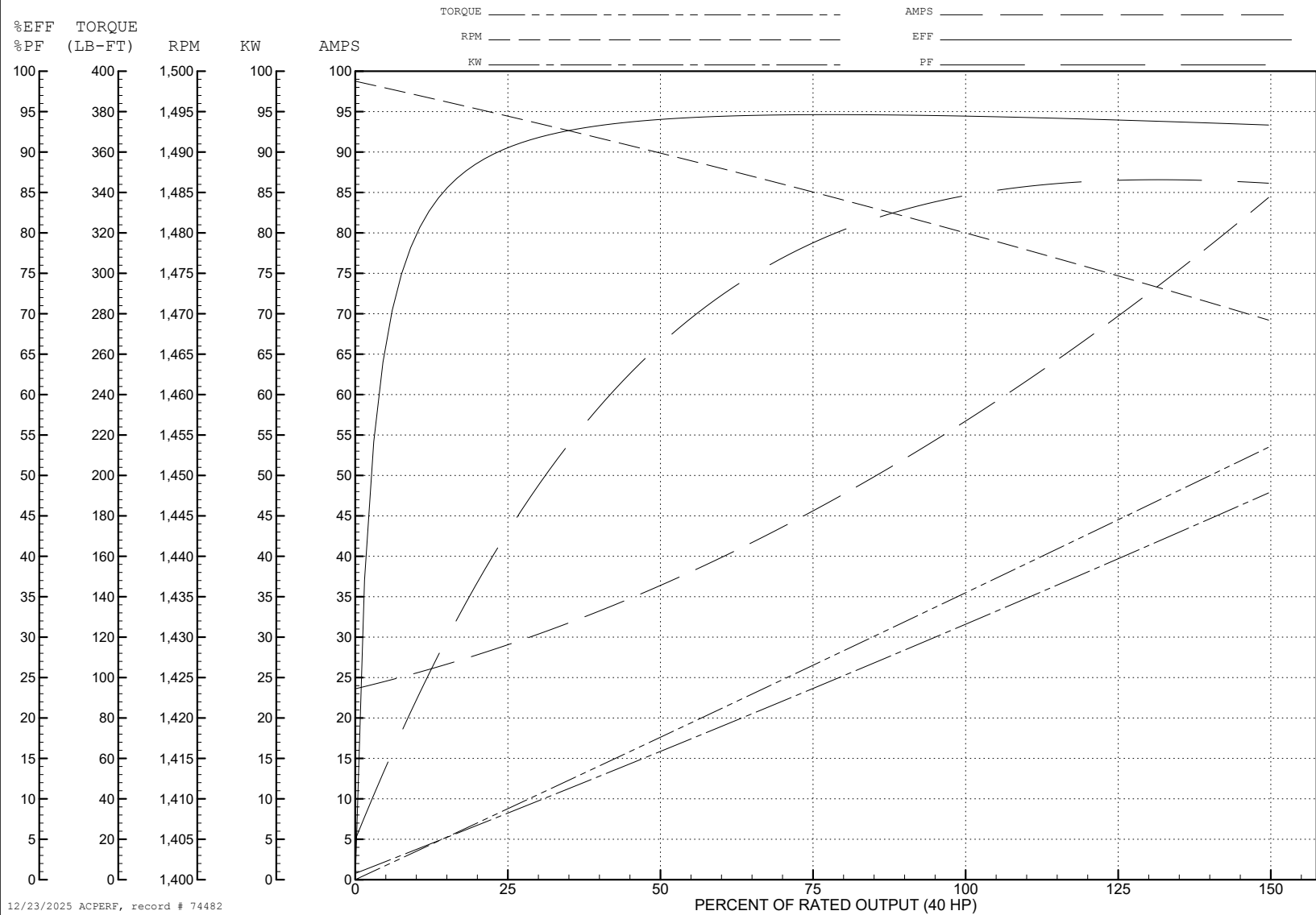
ABB Motors and Mechanical Inc.

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



12/23/2025 ACPERF, record # 74482

