



Customer information packet

CDRX050544

0.5HP, 1770//1475RPM, 3PH, 60//50HZ, 56C, 351

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPNV
Frame	56C
Frame Material	Steel
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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 50 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ
Agency Approvals	CSA 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	1.900 A @ 208.0 V 1.800 A @ 230.0 V 1.740 A @ 190.0 V .900 A @ 460.0 V .870 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGG155
Layout	35LYX724
Eff. date	10-11-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-28-2021

Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	0.9 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.14 IN
Power Factor	65
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 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

NP1401XPSL												
NO.						CC						
S/N						TEMP CODE	T3C					
SPEC.	35-0000-1351					INV.TYPE	PWM					
CAT.NO.	CDRX050544					C HP FR	60	C HP TO	90			
HP	.5//.33					CT HZ FROM	6	CT HZ TO	60			
VOLTS	230/460//190/380					VT HZ FROM	6	VT HZ TO	60			
AMPS	1.8/.9//1.74/.87				MAG CUR	1.58/.79						
RPM	1770//1475				MX RPM	2700						
HZ	60//50	PH	3	CL	F	NOM.EFF.	80					
SER.F.	1.00	DES	B	SL HZ	1	WK2	0.087					
FRAME	56C	RATING	40C AMB-CONT									
	55C AMB @ 1.0 SF											
	1.15 SF SINEWAVE				NEMA MG-1 PT 5, IP55							

AC Induction Motor Performance Data

Record # 90036

Typical performance - not guaranteed values

Winding: 35WGG155-R049		Type: 3512M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5//.33	Full Load Torque	1.49 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	1.8/.9//1.74/.87	Breakdown Torque	6.28 LB-FT
R.P.M.	1770//1475	Pull-up Torque	3.26 LB-FT
Hz	60//50	Locked-rotor Torque	4.04 LB-FT
NEMA Design Code	B	Starting Current	6.71 A
Service Factor (S.F.)	1	No-load Current	0.792 A
NEMA Nom. Eff.	80	Line-line Res. @ 25°C	43.2 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	22°C
		Locked-rotor Power Factor	70.7767
		Rotor inertia	0.0866 lb-ft ²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	27	41	52	62	69	75
Efficiency	56.5	70.7	76.5	78.9	80	80
Speed	1792	1786	1779	1771	1763	1755
Line amperes	0.795	0.827	0.889	0.966	1.06	1.18

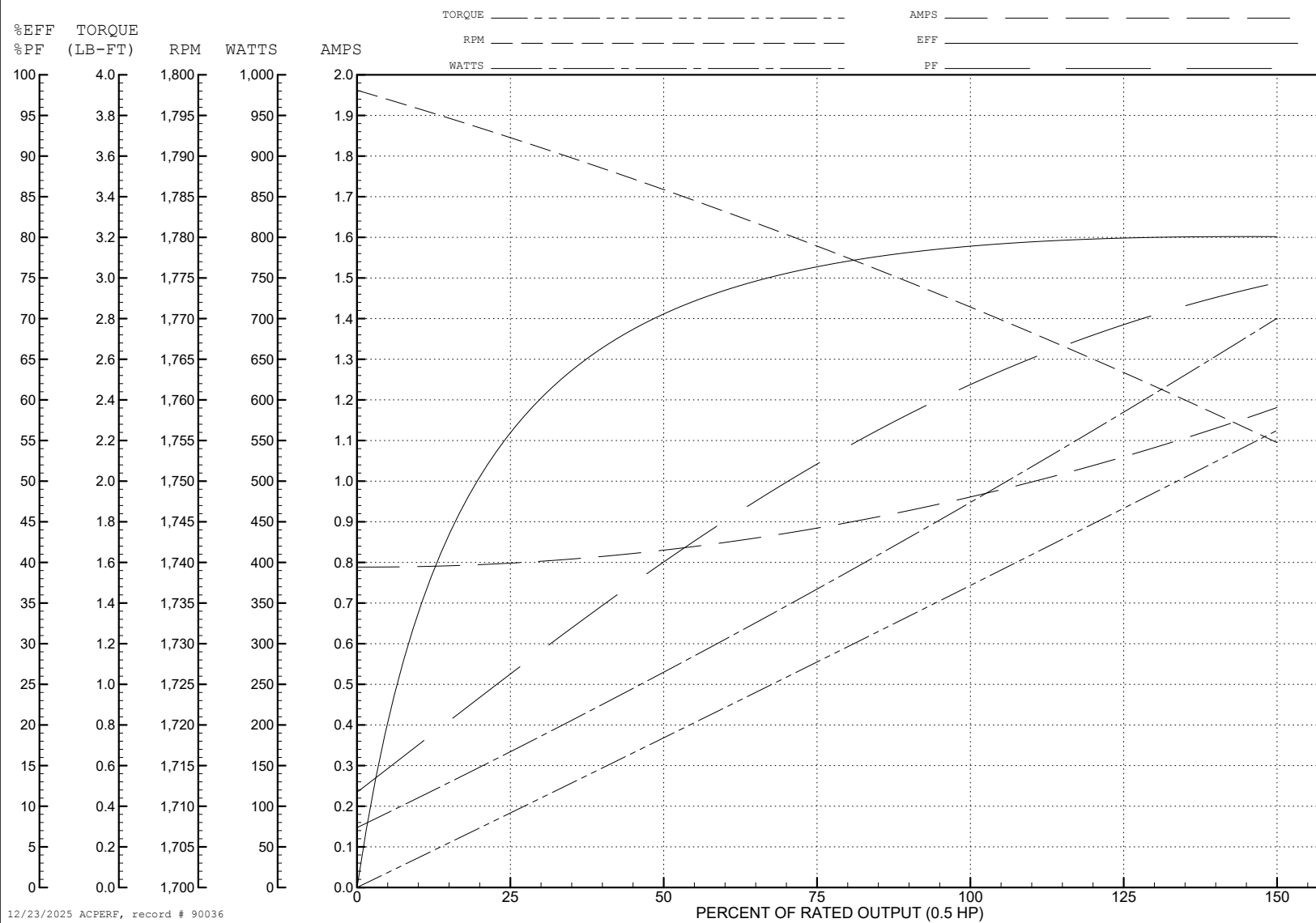
ABB Motors and Mechanical Inc.

WINDING # 35WGG155

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1771 RPM 460 V 3512M

TORQUES (LB-FT): PO=6.28 PU=3.26 LR=4.04 LRA=6.71



12/23/2025 ACPERF, record # 90036

