

**BALDOR • RELIANCE**

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# Customer information packet

## CPX25246T

60M 4P XPFC HOR 256T TSTATS CP FEAT INV

Class - CLI GP C,D; CLII GP E,F,G

Division - Division I

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## Specifications

Enclosure	XPFC
Frame	256TY
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP E,F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ 15.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 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	CSA EEV UL
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	22.000 A @ 380.0 V 24.000 A @ 460.0 V 44.000 A @ 190.0 V 48.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

## Part detail

Revision	R
Type	AC
Mech. spec.	09M363
Base	
Status	PRD/A
Elec. spec.	09WGT459
Layout	09LYM363
Eff. date	03-28-2025
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	02-12-2019

Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	22.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0960M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.75 IN
Power Factor	83
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger

<b>Speed</b>	1470 rpm 1770 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	Normally Closed Thermostat
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

**NP2033XPSLEV**

<b>NO.</b>		<b>CC</b>	010A		
<b>S/N</b>		<b>TEMP CODE</b>	T3C		
<b>SPEC.</b>	09M363T459G1	<b>INV.TYPE</b>	PWM		
<b>CAT.NO.</b>	CPX25246T	<b>C HP FR</b>	60	<b>C HP TO</b>	90
<b>HP</b>	20//15	<b>CT HZ FROM</b>	6	<b>CT HZ TO</b>	60
<b>VOLTS</b>	230/460//190/380	<b>VT HZ FROM</b>	6	<b>VT HZ TO</b>	60
<b>AMPS</b>	48/24//44/22	<b>MAG CUR</b>	20.8/10.4//20.4/10.2		
<b>RPM</b>	1770//1470	<b>MX RPM</b>	2700		
<b>HZ</b>	60//50	<b>PH</b>	3	<b>CL</b>	F
		<b>NOM.EFF.</b>	93		
<b>SER.F.</b>	1.00	<b>DES</b>	A	<b>SL HZ</b>	1
		<b>WK2</b>	2.62		
<b>FRAME</b>	256TY	<b>RATING</b>	40C AMB-CONT		
<b>BLANK</b>	55C AMB AT 1.0SF, 60C RISE				
	1.15SF ON SINEWAVE	NEMA MG-1 PT.5,IP55			

**AC Induction Motor Performance Data**

Record # 68068

Typical performance - not guaranteed values

Winding: 09WGT459-R009		Type: 0960M	Enclosure: XPFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	20	Full Load Torque	59.27 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	48/24	Breakdown Torque	232 LB-FT	
R.P.M.	1770	Pull-up Torque	126 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	141 LB-FT
NEMA Design Code	A KVA Code	J	Starting Current	198 A
Service Factor (S.F.)		1	No-load Current	10.4 A
NEMA Nom. Eff.	93 Power Factor	83	Line-line Res. @ 25°C	0.33814 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	58°C
			Locked-rotor Power Factor	26.5

**Load Characteristics 460 V, 60 Hz, 20 HP**

% of Rated Load	25	50	75	100	125	150
Power Factor	45	67	78	83	86	87
Efficiency	89.2	93	93.7	93.6	93.1	92.4
Speed	1793.2	1786.4	1779.1	1771.9	1763.7	1755.3
Line amperes	11.8	15	19.2	24	29.3	34.9

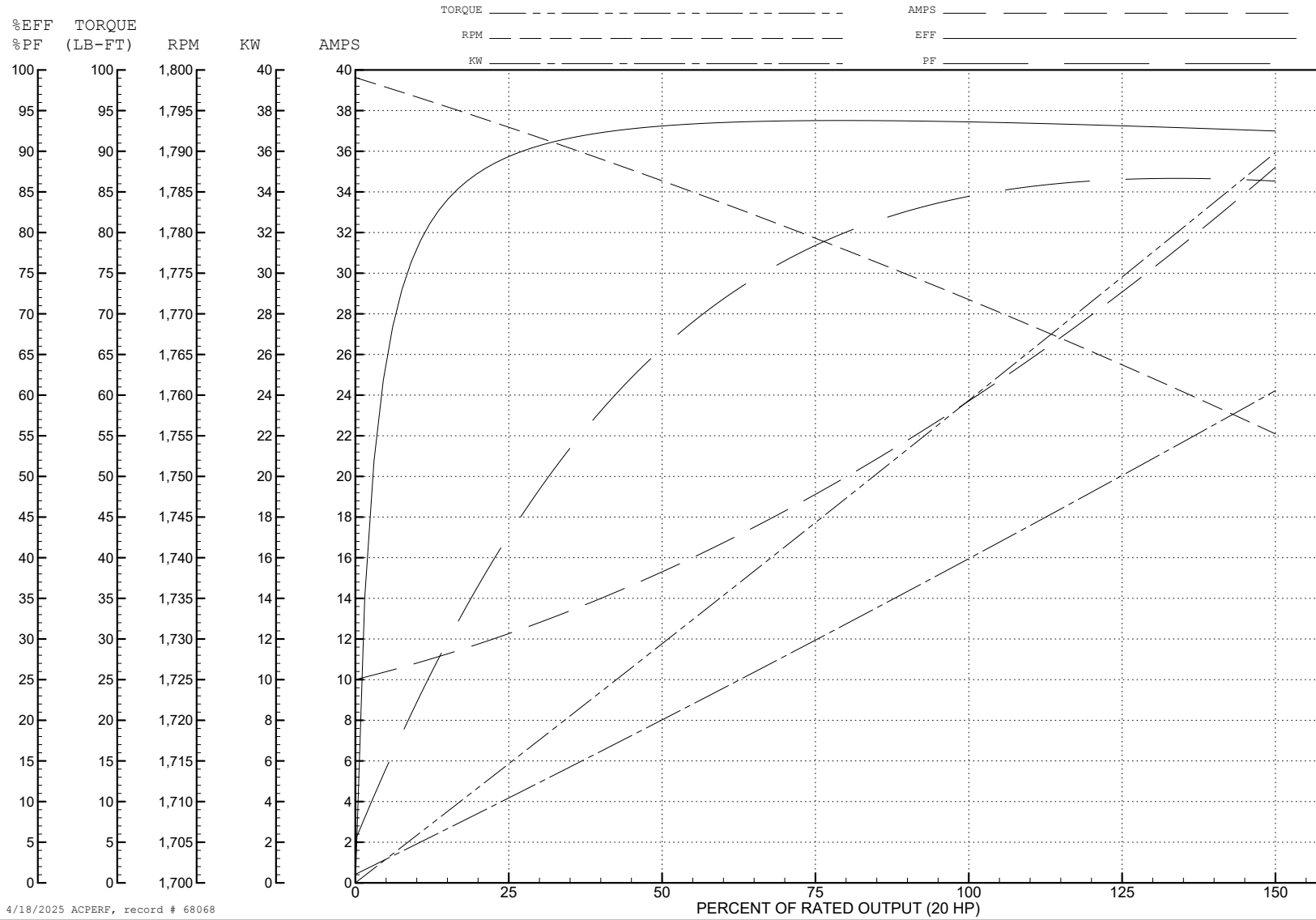
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WINDING # 09WGT459

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1770 RPM 460 V 0960M

TORQUES (LB-FT): PO=232 PU=126 LR=141 LRA=198



4/18/2025 ACPERF, record # 68068





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

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FILE: \AAA\00005\148	REVISED: 10: 25: 29 02/19/2019	BY: ENBRIRO
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3PH, DV, 9 LEADS, DELTA CONNECTION

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