

**BALDOR® • RELIANCE** 

**Product Information Packet**

**CEM2528T**

**20HP,1180RPM,3PH,60HZ,286TC,OPSB,F1**

Part Detail							
Revision:	A	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WGX191	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:		Layout:	40LYD102	Poles:	06	Created Date:	02-20-2020
Base:		Eff. Date:	07-20-2021	Leads:	9#10		

Specs			
Catalog Number:	CEM2528T	Heater Indicator:	No Heater
Enclosure:	OPSB	Insulation Class:	F
Frame:	286TC	Inverter Code:	Inverter Ready
Frame Material:	Steel	IP Rating:	NONE
Output @ Frequency:	20.000 HP @ 60 HZ	KVA Code:	H
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Voltage @ Frequency:	230.0 V @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
Agency Approvals:	CSA	Motor Type:	4056M
	CSA EEV	Mounting Arrangement:	F1
	UR	Power Factor:	74
Auxillary Box:	No Auxillary Box	Product Family:	General Purpose
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Ground Indicator:	No Shaft Grounding
Blower:	None	Shaft Rotation:	Reversible
Current @ Voltage:	27.000 A @ 460.0 V	Speed Code:	Single Speed
	54.000 A @ 230.0 V	Motor Standards:	NEMA

	56.000 A @ 208.0 V	<b>Starting Method:</b>	Direct on line
<b>Design Code:</b>	A	<b>Thermal Device - Bearing:</b>	None
<b>Drip Cover:</b>	No Drip Cover	<b>Thermal Device - Winding:</b>	None
<b>Duty Rating:</b>	CONT	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Winding Thermal 1:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Winding Thermal 2:</b>	None

Nameplate NP2138L											
CAT.NO.	CEM2528T			P/N				ENCLOSURE	OPSB		
SPEC.	40-0000783	CC	010A	FRAME	286TC			S/N			
HP	20			CLASS	F	HZ	60				
RPM	1180			PH	3	DES	A				
VOLT	230/460			KVA-CODE	H			ODE BRG	6309	DE BRG	6311
AMP	54/27			USABLE AT 208V	56						
RATING	40C AMB-CONT			GREASE	POLYREX EM						
NEMA-NOM-EFF	92.4	PF	74	SER.F.	1.15						
HTR-VOLTS				HTR-AMPS							

Parts List		
Part Number	Description	Quantity
SA379247	SA 40-0000783	1.000 EA
RA369233	RA 40-0000783	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP2138L	ALUM SUPER-E UL CSA-EEV PREM CC (300	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.130 LB
HA3154A04	THRUBOLT STUD 3/8-16 X 18.750	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	8.000 EA
XY3816A12	3/8-16 FINISHED NUT	8.000 EA
40EP3200A02	STD FREP OPEN 309 BRG	1.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
40EP1400A13	PU ENDPLATE, CFACE MACH W/O BAFFEL	1.000 EA
10XN3118K40	5/16-18 X 2.25" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
10CB3000	CONDUIT BOX, MACH W/2.00 LEAD HOLE	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 EA
HA6017	CAST ADAPTER, 40,42 KOBX	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.125 GA
40PA1000	PACKAGING GROUP	1.000 EA
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA

**AC Induction Motor Performance Data**

Record # 66052

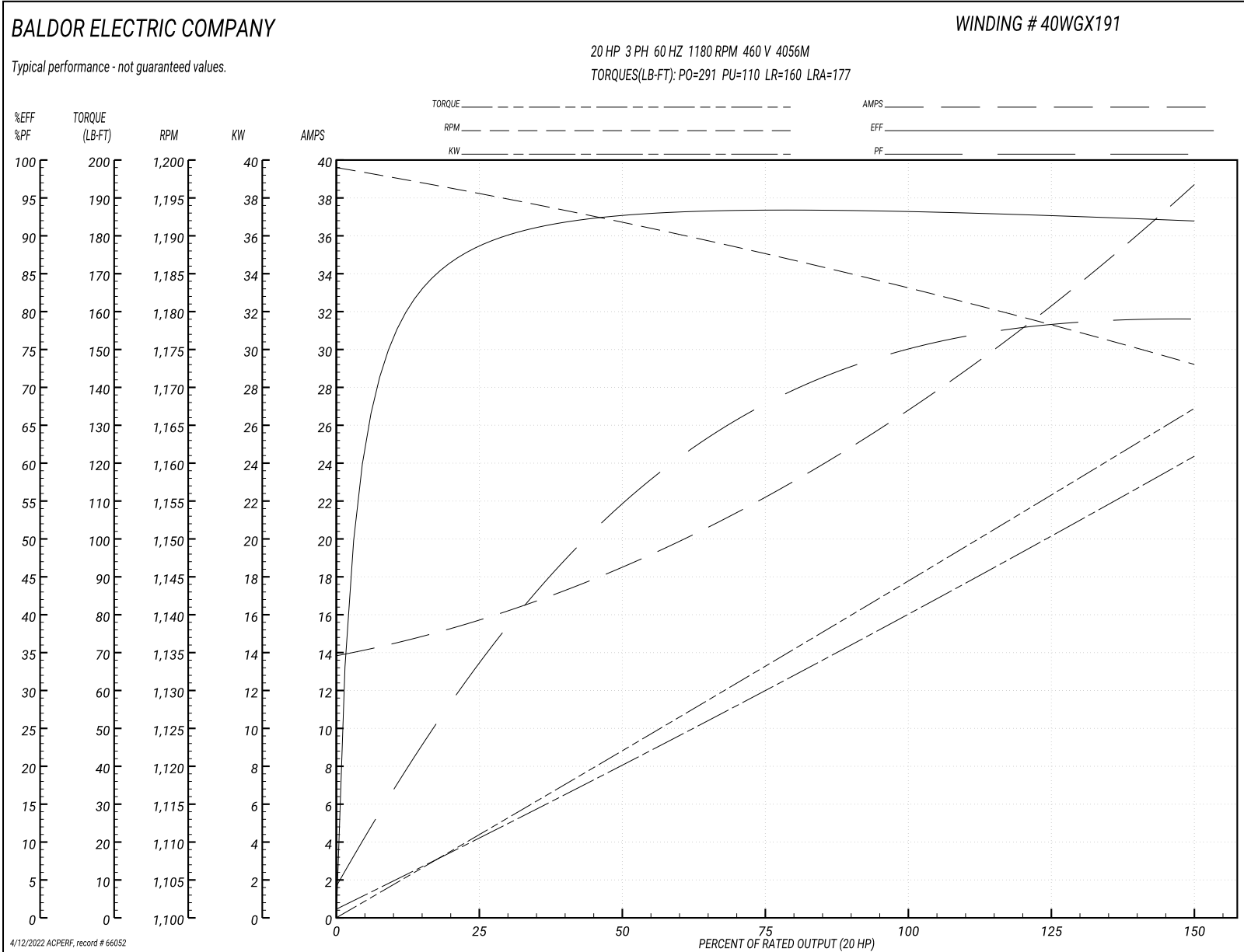
Typical performance - not guaranteed values

<b>Winding:</b> 40WGX191-R001		<b>Type:</b> 4056M		<b>Enclosure:</b> OPSB	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	20	<b>Full Load Torque</b>	88.68 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	54/27	<b>Breakdown Torque</b>	291 LB-FT		
<b>R.P.M.</b>	1180	<b>Pull-up Torque</b>	110 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	160 LB-FT	
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	H	<b>Starting Current</b>	177 A
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	14.1 A		
<b>NEMA Nom. Eff.</b>	92.4	<b>Power Factor</b>	74	<b>Line-line Res. @ 25°C</b>	0.38967 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	29°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	35°C	
			<b>Locked-rotor Power Factor</b>	31.3	

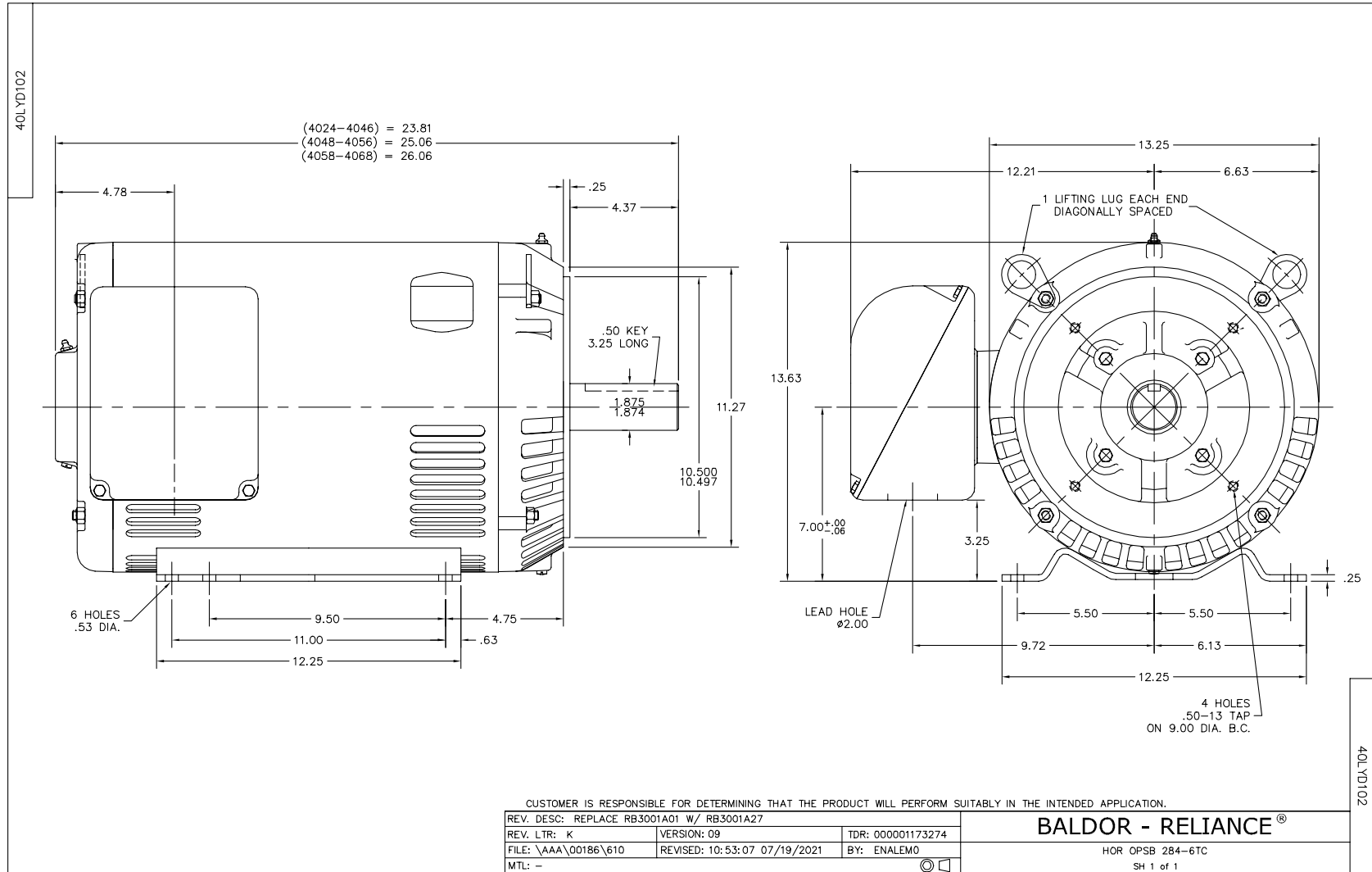
**Load Characteristics 460 V, 60 Hz, 20 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	34	55	68	74	78	79	76
<b>Efficiency</b>	88.4	92.5	93.3	93.2	92.7	91.9	92.9
<b>Speed</b>	1195.7	1191.7	1187.5	1183.3	1178.5	1172.9	1180
<b>Line amperes</b>	15.4	18.3	22.2	27	32.4	38.5	30.2

Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values







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		
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MTL: -	© □	

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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