

PRODUCT INFORMATION PACKET

Model No: 256THFNA8038

Catalog No: Y598

20 HP Variable Speed Motor, 3 phase, 1800 RPM, 230/460 V, 256TC Frame, TEFC
2000:1 With Encoder Provision Motors



Nameplate Specifications

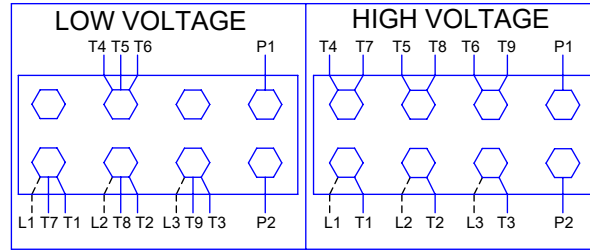
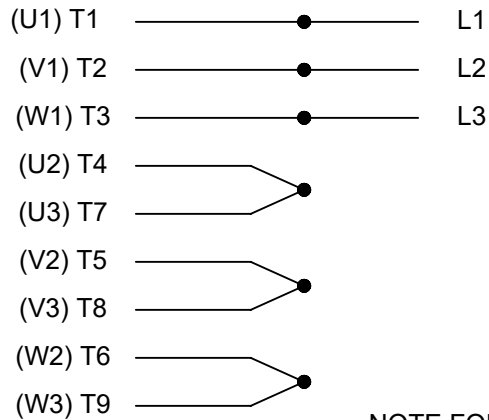
Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	230/460 V
Current	52.0/26.0 A	Speed	1775 rpm
Service Factor	1	Phase	3
Efficiency	91 %	Power Factor	78
Duty	Continuous	Insulation Class	H
Design Code	INV	KVA Code	J
Frame	256TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Thermostats (N/C)	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6210
UL	Recognized	CSA	Y
CE	Y	IP Code	43

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.325 Ohms	Mounting	Rigid base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	28.09 in
Frame Length	12.25 in	Shaft Diameter	1.625 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS203502-1225	Connection Drawing	A-EE7308T

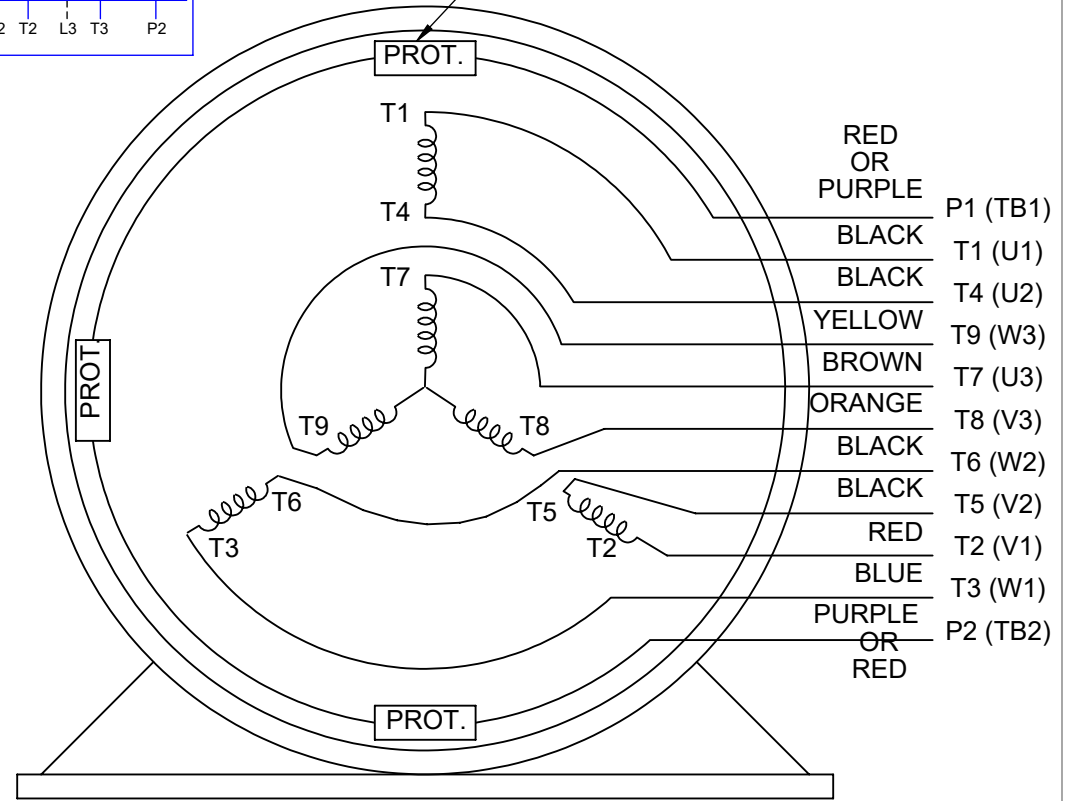
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HIGH VOLTAGE



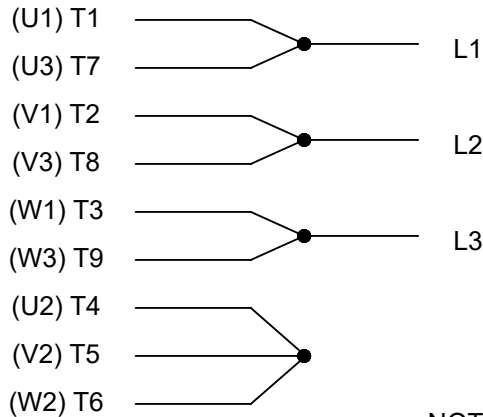
**THREE PHASE
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS
CONNECTED IN SERIES



**NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1**

LOW VOLTAGE



VIEW OF TERMINAL END

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

DRAWING REVISION T	REVISION BY ZR	DATE 01-14-2019		DRAWN BY SMC	Regal Beloit America, Inc.
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019		DATE 05-13-1992	
ECO DESCRIPTION ADDED TERMINAL CONNECTION DIAGRAM				APPROVED BY TB	DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - DUAL VOLTAGE MOTOR
<small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small>			DATE 05-13-1992	MATERIAL	PROCESS/FINISH
			REFERENCE EE7308/EE7300	SIZE A	DRAWING NUMBER EE7308T
			THIRD ANGLE PROJECTION		

CERTIFICATION DATA SHEET

Model#: 256TFHNA8038 BC
 CONN. DIAGRAM: A-EE7308T
 OUTLINE: B-SS203502-1225

WINDING#: K2564204 R12 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN			
20	14.9	1800	1775	256TC	TEFC	J	INV			
PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION	
3	60	230/460	52/26	INVERTER ONLY	CONTINUOUS	H4	1.0	40	3300	
FULL LOAD EFF: 91		3/4 LOAD EFF: 90.2	1/2 LOAD EFF: 88.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS				
FULL LOAD PF: 78		3/4 LOAD PF: 72	1/2 LOAD PF: 58	89.5	SQ CAGE INV DUTY	28 / 14				
F.L. TORQUE		LOCKED ROTOR AMPS		L.R. TORQUE		B.D. TORQUE		F.L. RISE°C		
59.2 LB-FT		364 / 182		147 LB-FT 248		195 LB-FT 329		60		
SOUND PRESSURE @ 3 FT.		SOUND POWER		ROTOR WK ²		MAX. WK ²		SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
68 dBA		78 dBA		2.7 LB-FT ²		-LB-FT ²		-SEC.	-	377 LBS.

EQUIVALENT WYE CKT. PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.22578	0.1633	0.81082	0.43594	19.028
RM	ZREF	XR	TD	TD0
986.9	14.2	5.2	0.018	0.316

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT	
C-FACE	ENCODER	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)	
BEARINGS		GREASE		SHAFT TYPE		SPECIAL ODE		SHAFT MATERIAL	FRAME MATERIAL
DE	OPE	POLYREX EM		T	NONE	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL	BALL	6210							

THERMO-PROTECTORS				THERMISTORS		CONTROL		SPACE /n HEATERS	
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	NONE	NONE	FALSE	NONE	NONE	NONE
TSTATS (NIC)	NOT	NONE	NONE	NONE	NONE	FALSE	NONE	NONE	VOLTS

If Inverter equals NONE, contact factory for further information

* N		INVERTER TORQUE: CONSTANT 2000.1	
O		INV. HP SPEED RANGE: 1.5 X BASE SPEED	
T		ENCODER: PROVISIONS ONLY	
E		DYNAPAR HS35	
S		NONE NONE PPR	
*		BRAKE: NONE NONE	
		NONE P/N NONE	

NONE	NONE	NONE
- FT-LB	NONE V	NONE HZ

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