PRODUCT INFORMATION PACKET



Model No: 170142.60 Catalog No: 170142.60

WATTSAVER® General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V,

1800 & 1500 RPM, 213T Frame, DP



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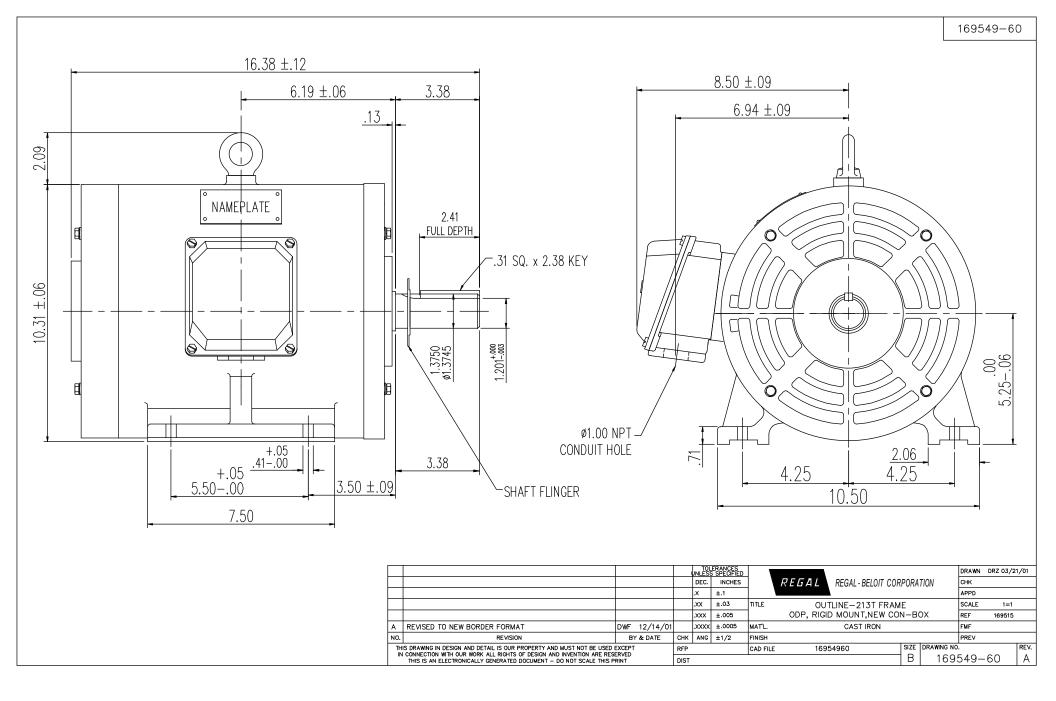
Nameplate Specifications

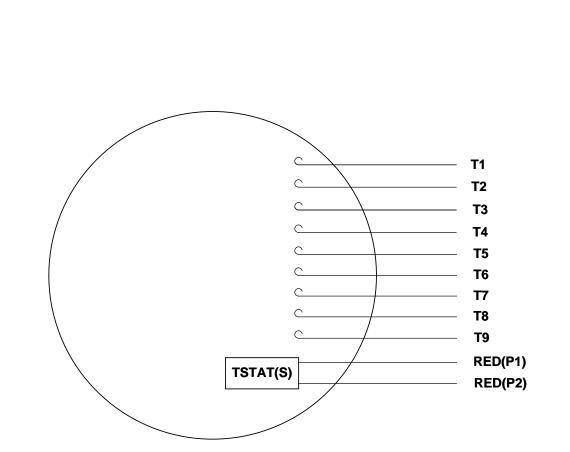
Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	208-230/460 & 190/380 V
Speed	1760 & 1475 rpm	Service Factor	1.15 & 1.15
Frame	213T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	20.6-19.8/16.8 & 9.9/8.4 A	Power Factor	78
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	J
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
UL	UL Recognized		Υ
CE	Υ	IP Code	22
Number of Speeds	1		

Technical Specifications

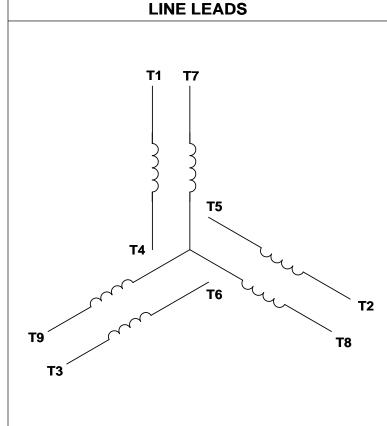
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.317 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	Т	Overall Length	16.38 in
Shaft Diameter	1.375 in	Shaft Extension	3.38 in
Assembly/Box Mounting	F1 ONLY		
Connection Drawing	005010.20	Outline Drawing	16954960

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VIEW FROM OUTSIDE OF MOTOR AT SWITCH END. Uncontrolled Copy



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	Т3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

DRAWING REVISION	REVISION BY	DATE
G	MVG	04/05/2017
ECO	APPROVED BY	DATE
ECO-0121253	SM	04/05/2017
ECO DESCRIPTION		

ADDED P1 & P2 FOR TSTAT

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TOLERAN	ICES UN	NLESS	
OTHERW	ISE SPE	CIFIED:	
DEC.	INCH	mm	ANGLE
	±0.1	[±2.5]	±0.5°
.XX	±0.01	$[\pm 0.25]$	
.XXX	± 0.005	[±0.127]	
.XXXX ±	0.0005	[±0.0127]	
REMOVE	BURRS	& BREAK S	HARP
EDGES:	.003/.01	5 [.076/.381]	X 45°
CORNER	FILLETS	S: R.02 [.51]
MACHINE	D SURF	ACES: 125	3.2/
		INCH ∨	$mm \bigvee$
mm SHO\	NN IN [I	BRACKETS]	

<u> </u>	DRAWN BY DBT 12/16/97 DATE	-	REGAL	R	egal Beloit A	me	rica, Inc.	
	APPROVED BY KH 12/17/97 DATE	DES	COI		DIAGRAM			_
				31	PHASE WITH P	ROTE	CTOR	
	REFERENCE	MAT	ERIAL				PROCESS/FINISH	
,		D	ECAL - 004	4014	(TSTAT) - 0805	82	STOCK	
/	THIRD ANGLE	SIZI	DRAWING	NUMBI	ER			SHEET
	PROJECTION	⊐∣A	<u> </u>		0050102	20		1 OF 1



1051 CHEYENNE AVE. GRAFTON, WI 53024 PH. 262-377-8810

CATALOG #: 170142.60

CONN. DIAGRAM: 005010.20

OUTLINE: 16954960 MOUNTING: F1 ONLY

WINDING #: T10704007 DR 3 A

TYPICAL MOTOR PERFORMANCE DATA

НР	kW	SYNC, RPM	F.L. RPM FRAME		ENCLOSURE	KVA CODE	DESIGN
7 1/2&5	5.60&3.70	1800	1760&1475	213T	DP	J	В

P	H Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	амв°С
	60/50	208-230/460&190/380	20.6-19.8/16.8&9.9/8.4	LINE OR INVERTER	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	91	3/4 LOAD EFF:	92.7	1/2 LOAD EFF:	92.3	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	78	3/4 LOAD PF:	71.5	1/2 LOAD PF:	58.8	89.5	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE			E	F.L. RISE°C		
22.5 LB-FT	145 / 72.5	45	LB-FT	201 %	78.3	LB-FT	350 %	28.7

SOUND PRESSURE @ 3 FT.	SOUND	POWER	ROTO	R WK^2	МАХ	(. WK^2	SAFE ST	ALL TIME	STARTS / HOUR	APPROX. MOTOR WG	ìΤ
47 dBA	57	dBA	0.829	LB-FT^2	0.8	LB-FT^2	-	SEC.		- LBS.	

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	ODE	GREASE	SHAFITIFE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	Т	NONE	NONE	1045 HOT DOLLED (C 204)	CAST IRON
6308	6208	POLTREX EM				1045 HOT ROLLED (C-204)	

	THERMO-PROTECT	THERMISTORS	CONTROL	CDACE HEATERS			
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	THERMISTORS	CONTROL	SPACE HEATERS	
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE	VOLTS

INVERTER TORQUE: CONSTANT 4:1 INV. HP SPEED RANGE: NONE Ν **ENCODER:** NONE NONE NONE NONE PPR NONE Т **BRAKE:** NONE NONE P/N NONE NONE Ε NONE NONE NONE FT-LB NONE V NONE HZ S

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