controls convert AC voltage to DC voltage, which provides

variable speed control for DC motors. Used in applications

controlled rectifier (SCR) DC motor





DC Motor Speed Controls

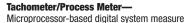
PWM DC Speed Controls—Pulse width modulation (PWM) devices adjust voltage pulses to regulate the speed of DC motors. Used for low-voltage devices such as truckmounted equipment, portable conveyors, and



Davton

5.	JJ55			mounted	equipment, portable ral feeders.								centrifuges.
Maximum Current PWM DC Spe	Voltage		Rotation	Speed Range	External Switches T	Current/ orque Limit	Overall Width	Ove Hei	rall ght	Overall Depth	В	rand	ltem No.
Open													
10 A 20 A	12 to 48V 12 to 48V	DC 12 to 48V DC DC 12 to 48V DC	Single Direction Single Direction	30:1 30:1	None	Adjustable Adjustable	3.62 in 3.62 in	4.2	5 in 5 in	1.3 in 1.3 in		Controls Controls	38EG40 38EG41
40 A	24 to 36V	DC 24 to 36V DC	Single Direction	30:1	None	Adiustable	3.7 in	7		1.7 in	Dart	Controls	2LHT8
40 A	12V DC 12V DC	12V DC 12V DC	Single Direction Single Direction	30:1 30:1	None	Adjustable Adjustable	3.7 in 6.7 in	7	in	1.7 in 2.27 in	Dart	Controls Controls	2LHT9
60 A 60 A	24 to 36V	DC 24 to 36V DC	Single Direction	30:1	None	Adjustable Adjustable	6.7 in 6.7 in	9 9		2.27 in 2.27 in	Dart	Controls	6YC43 6YC44
Enclosed NE	MA 4X		· · ·			Aujustable				2.27 111	Dait	001111013	
10 A	12 to 48V 12 to 24V	DC 12 to 48V DC DC 12 to 24V DC	Single Direction	30:1	ON/OFF	Adjustable	5.53 in	7.3	in	4.78 in		Controls	38EG42
15 A 20 A	12 to 24V 12 to 48V	DC 12 to 24V DC DC 12 to 48V DC	Single Direction Single Direction	30:1 30:1	FWD/OFF/REV ON/OFF	Adjustable	5.53 in 5.53 in	7.3		4.78 in 4.78 in		Controls Controls	65TK12 38EG43
20 A	12 10 40 V	DC 12 10 46 V DC	Single Direction	30.1	UN/UFF	Adjustable Current/	5.53 III	7.3	111	4.70 111	Dari	CONTROLS	30EG43
Maximum Current	AC Input Voltage	Voltage Output	Rotation	Speed Range	External Switches	Torque	Shunt Wound Voltage	Dynamic Braking	Overall Width	Overall Height	Overall Depth	Brand	ltem No.
SCR DC Spee	ed Controls	•											
Open 1.2 A	120/240V AC	90/180V DC	Single Direction	50:1	None	Adiustable	100/200V DC	No	3.63 in	4.25 in	1.3 in	Dart Contro	ols 5DYG9
1.2 A	120V AC	90V DC	Reversible	50:1	None	Adjustable	100V DC	Yes	6.25 in	7 in	4.06 in	Dart Contro	ols 5HA32
1.2 A	240V AC	180V DC	Reversible	50:1	None	Adjustable	200V DC	Yes	6.25 in	7 in	4.06 in	Dart Contro	ols 5HA34
2 A 2 A	12/24V AC 12/24V AC	12/24V DC 12/24V DC 0 to 90/180V DC	Single Direction Single Direction	25:1 25:1	None None	None	10/20V DC 10/20V DC	No	2.8 in 2.8 in	3.3 in 3.3 in	1.3 in 1.5 in	Dart Contro Dart Contro	ols 5JJ53 ols 5JJ54
2 A .	120/240V AC	0 to 90/180V DC	Single Direction	25:1	ON/OFF	None	100/200V DC	No	4.9 in	4 in	2 in	Davton	4Z827
2 A	120/240V AC	90/180V DC	Single Direction	25:1 25:1	None	None	100/200V DC	No	2.8 in	3.3 in	1.3 in	Dart Contro	ols 5JJ56
2 A	120/240V AC 120/240V AC 120/240V AC 120/240V AC	90/180V DC 90/180V DC 90/180V DC 90/180V DC	Single Direction	25:1	None	None	100/200V DC 100/200V DC 100/200V DC 100/200V DC	No	2.8 in	3.3 in	1.5 in	Dart Contro	ols 5JJ57
5.5 A 5.5 A	120/240V AC	90/180V DC	Single Direction Single Direction	50:1 50:1	None None	Adjustable	100/200V DC	No No	3.63 in 3.63 in	4.25 in 4.25 in	1.3 in 1.3 in	Dart Contro Dart Contro	ols 2LHT4 ols 2LHT5
5.5 A	120/240V AC 120/240V AC	90/180V DC 90/180V DC	Single Direction	50:1	None	Adjustable	100/200V DC 100/200V DC	No	3.63 in	4.25 in	1.3 in	Dart Contro	ols 2M510
554	120V AC	90V DC	Reversible	50:1	None	Adjustable	100V DC	Yes	6.25 in	7 in	4.06 in	Dart Contro	ols 5HA33
5.5 A 10 A	240V AC	180V DC	Reversible	50:1 50:1	None	Adjustable	200V DC 100/200V DC	Yes	6.25 in	7 in 7 in	4.06 in	Dart Contro Dart Contro	ols 5HA35 ols 6Z385
10 A	240V AC 120/240V AC 120/240V AC	180V DC 90/180V DC 90/180V DC	Reversible Single Direction	50:1	None None	Adjustable	100/200V DC 100/200V DC	No	5.53 in 6.7 in	9 in	1.63 in 2 in	Dart Contro	ols 6Z365
15 A	120/240V AC	90/180V DC	Single Direction	50:1	None	Adjustable	100/200V DC	No	6.7 in	9 in	2 in	Dart Contro	ols 5JJ59
Enclosed NE		0.4- 00/1001/ 00	Davanaihia	50:1	FWD/STOP/REV, ON/OFF	Adiustable	100/0001/ 00	Ma a	F 14	9.5 in	5.5 in	Devitere	CVACE
	120/240V AC	0 to 90/180V DC 90/180V DC	Reversible Single Direction	100:1	FWD/STOP/REV, UN/UFF	None	100/200V DC	Yes No	5 in 3.62 in	9.5 m	4.63 in	Dayton Dart Contro	6X165 ols 1XC92
		0 to 90/180V DC	Reversible	50:1	None FWD/STOP/REV, ON/OFF AUTO/MANUAL, FWD/	Adjustable	100/200V DC	Yes	5 in	9.5 in	5.5 in	Dayton	1F794
		0 to 90/180V DC	Reversible	50:1	AUTO/MANUAL, FWD/ STOP/REV, ON/OFF ON/OFF		100/200V DC	Yes	5 in	9.5 in	5.5 in	Dayton	4Z829
10 A	120/240V AC	0 to 90/180V DC	Single Direction	50:1	ON/OFF	Adjustable	100/200V DC	No	5 in	9.5 in	5.5 in	Dayton	5X485
10 A 10 A	120/240V AC 120/240V AC	90/180V DC 90/180V DC	Single Direction Single Direction	100:1 100:1	ON/OFF None				5.13 in 3.62 in	7.4 in 3.5 in	3.9 in 4.63 in	Dart Contro Dart Contro	ols 2LHU2 ols 2LHU3
Enclosed NE	MA 4	90/1000 DG	Single Direction	100.1	NULLE				3.02 111	3.3 111	4.03 111	Dari Gunin	JIS ZLIIUJ
3.4	12/24V/ AC	12/24V DC	Single Direction	25:1	ON/OFF	—	—	_	3.81 in	3.5 in	5.5 in	Dart Contro	ols 5JJ55
3 A	120/240V AC	90/180V DC 90/180V DC	Single Direction Single Direction	25:1	ON/OFF	None	100/200V DC	No	3.81 in	3.5 in 7.25 in	5.5 in	Dart Contro	ols 5JJ58
10 A 10 A	120/240V AC 120/240V AC 120/240V AC 120/240V AC	90/180V/DC	Reversible	50:1 50:1	ON/OFF ON/OFF FWD/OFF/REV	Adjustable	100/200V DC 100/200V DC	No	5.53 in 5.53 in	7.25 in 7.25 in	2.75 in 2.75 in	Dart Contro Dart Contro	ols 13A944 ols 2LHT6
10 Δ .	120/240V AC	0 to 90/180V DC	Reversible	50:1	FWD/STOP/REV, ON/OFF	Adjustable	100/200V DC	Yes	5 in	9.5 in	5.5 in	Davton	2M171
10 A	120/240V AC	90/180V DC	Reversible	50:1	FWD/STOP/REV, ON/OFF FWD/STOP/REV, ON/OFF ON/OFF	Adjustable	100/200V DC 100/200V DC	Yes	6.7 in	10 in	5.5 in 4.75 in	Dart Contro	ols 2M511
10 A 10 A	120/240V AC 120/240V AC 120/240V AC 120/240V AC	0 to 90/180V DC 90/180V DC 90/180V DC 90/180V DC 90/180V DC	Single Direction	50:1	ON/OFF ON/OFF	Adjustable	100/200V DC	No	5.53 in	7.25 in	2.75 in	Dart Contro	
Enclosed NE	120/240V AC	90/100V DU	Single Direction	50:1	UN/UFF	Aujustable	100/200V DC	Yes	6.7 in	10 in	4.75 in	Dart Contro	15 02300
2 A 2 A	120/240V AC 120V AC	0 to 90/180V DC 0 to 90V DC	Single Direction Single Direction	25:1 25:1	ON/OFF ON/OFF	None None	100/200V DC	No No	4.25 in 6 in	5 in 6 in	1.88 in 6.38 in	Dayton Dayton	4Z527 5X412
Enclosed IP3 3 A	120V AC		Single Direction	15:1	None	Adjustable	_	_	2.61 in	3.6 in	3.19 in	Dayton	2PUX3

DC Tachometer and Pulse Generators Pulse Generators—Provide square-wave pulses with frequency



NEMA 4X rating (faceplate

with supplied gasket)

Includes option board for

proximity sensor input

4-digit ½" LED

shaft speed lower than 1 rpm and operate as

a digital rate meter, timer, or process counter. An onboard microcomputer equipped with

reference frequency, and display updating on every pulse permits accuracy of ±0.04%

sophisticated software, quartz crystal controlled



3VU57



Potentiometer Kits

Input

Voltage ometer and Pro 120/240VAC

4.5 to 24V D 4.5 to 24V D

to 24V D

DART
CONTROLS

Item

No

3VU57

6Z392 5JJ65

38D074

Туре	Input Voltage	Voltage Output	Display	Includes	ltem No.
5K Oh	m —	_	Dial Plate	Dial Plate; 8 ¾ in Leads; Knob; Speed Pot	2LHT7
Digita	l 85 to 265V AC	0 to 24V DC	LED	Gasket Kit for NEMA 4X Panel Installation	2LHU1

proportional to shaft rpm of unit to which it is mounted. Stainless

steel ball bearing, compact Santoprene rubber housing, and 6-ft. rubber-jacketed output cable with 3-wire 18 AWG conductors. Mount

directly to motor shaft being monitored using single #10-32 screw.

Pulses per

Revolution

Operating temp. range: -10° to 45°C Max. shaft speed: 5000 rpm



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1-800-GRAINGER (472-4643)

Mfr. Model

DM8000

PU-2E PU-20E PU-40E

