



# SERIES G2 PRODUCT DATA SHEET

MODEL	PART NUMBER	MOTOR TYPE
SG2 12-A-E24V-10DL-WR00-MC	104440	Electric 24V
SG2 12-C-E24V-10DL-WR00-MC	104445	Electric 24V
SERIAL NUMBER	INSPECTED BY	DATE

ENGINEERING DATA		
Rated Pulling Force:	12000 lbf	5443 kgf
Drum Barrel Diameter:	4 in	101.6 mm
Drum Flange Diameter:	8.24 in	209.3 mm
Drum Width:	9.95 in	252.7 mm
Evaluated Rope Diameter:	7/16 in	11 mm
Maximum Wire Rope Diameter:	1/2 in	12.7 mm
Minimum Wire Rope Breaking Strength:	20400 lbf	9253 kgf
Maximum Layers of Wire Rope:	4 with 7/16in rope	
Gear Train:	Planetary	
Gear Reduction:	266:1	
Mounting Bolt Size:	M12 X 1.75 Class 8.8	
Mounting Bolt Torque:	46-51 lbf-ft	63-69 Nm
Duty Cycle (per SAE J706 section 6.2):	51.3 ft	15.6 m
Approximate Shipping Weight:	98.0 lbf	44.5 kg
Brake Type:	Automatic Disk Brake per SAE J706 Sec. 4.2	
Sealing:	IP68/IP69K	
UV Rating:	1200 kJ/m <sup>2</sup> per ASTM G154	
Corrosion Resistance:	408 hrs per ASTM B117	
Operating Temperature:	-40°F to 158°F (-40°C to 70°C)	
Decibels:	85.5 dB	
EMC Emissions:	CISPR 25:2008	
EMC Immunity:	ISO 7637-2:2004	



## DESCRIPTION

SeriesG2 Electric winches provide new levels of performance, durability, and efficiency to help get jobs done quickly and reliably time after time.

## ACCESSORIES

SeriesG2 winches represents an all-new level of modular design, customization, and versatility, no matter the application. Please visit [www.warn.com/industrial](http://www.warn.com/industrial) for all available accessories and options.

## STANDARDS COMPLIANCE

2006/42/EC - EN ISO 12100:2010, EN 60529:1992+A2:2013, EN 14492-1:2006\*  
 2014/30/EU - EN 50498:2010, ISO 7637-2:2011, CISPR 25  
 2011/65/EU - EN 63000:2018

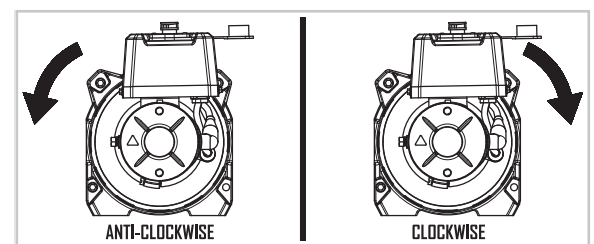
Also complies with:  
 SAE J706

\*Conforms with exceptions

PERFORMANCE BY LAYER					
DRUM LAYER	LINE LOAD*			LINE SPEED	
	lbf	kgf	kN	ft/min	m/min
1	12000	5443	53.4	24.8	7.6
2	10024	4547	44.6	27.2	8.3
3	8606	3904	38.3	29.7	9.0
4	7540	3420	33.5	32.1	9.8

\*Never exceed the Rated Pulling Force. Installation of a Rated Capacity Limiter is recommended

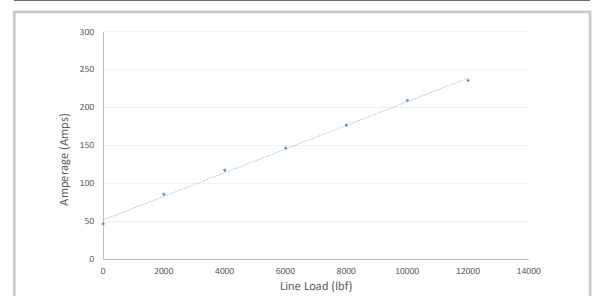
## DRUM ROTATION



As viewed from motor end

FIRST LAYER PERFORMANCE					
LINE LOAD		CURRENT DRAW	LINE SPEED (AT LOAD)		DUTY CYCLE
lbf	kgf	AMPS	ft/min	m/min	min/10min
0	0	46.7	24.8	7.6	4:00
2000	907	85.8	14.4	4.4	2:45
4000	1814	117.5	10.7	3.3	1:50
6000	2722	146.7	9.5	2.9	1:10
8000	3629	176.8	8.3	2.5	0:50
10000	4536	209.5	6.9	2.1	0:30
12000	5443	235.7	6.6	2.0	0:20

## FIRST LAYER PERFORMANCE





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## DRUM CAPACITY BY LAYER

DRUM LAYER	DRUM LENGTH							
	6.5"		8"		10"		12.5"	
	ft	m	ft	m	ft	m	ft	m
1	15	4.6	19	5.8	24	7.3	29	8.8
2	32	9.8	42	12.8	53	16.2	63	19.2
3	52	15.8	69	21.0	86	26.2	104	31.7
4	75	22.9	100	30.5	125	38.1	150	45.7

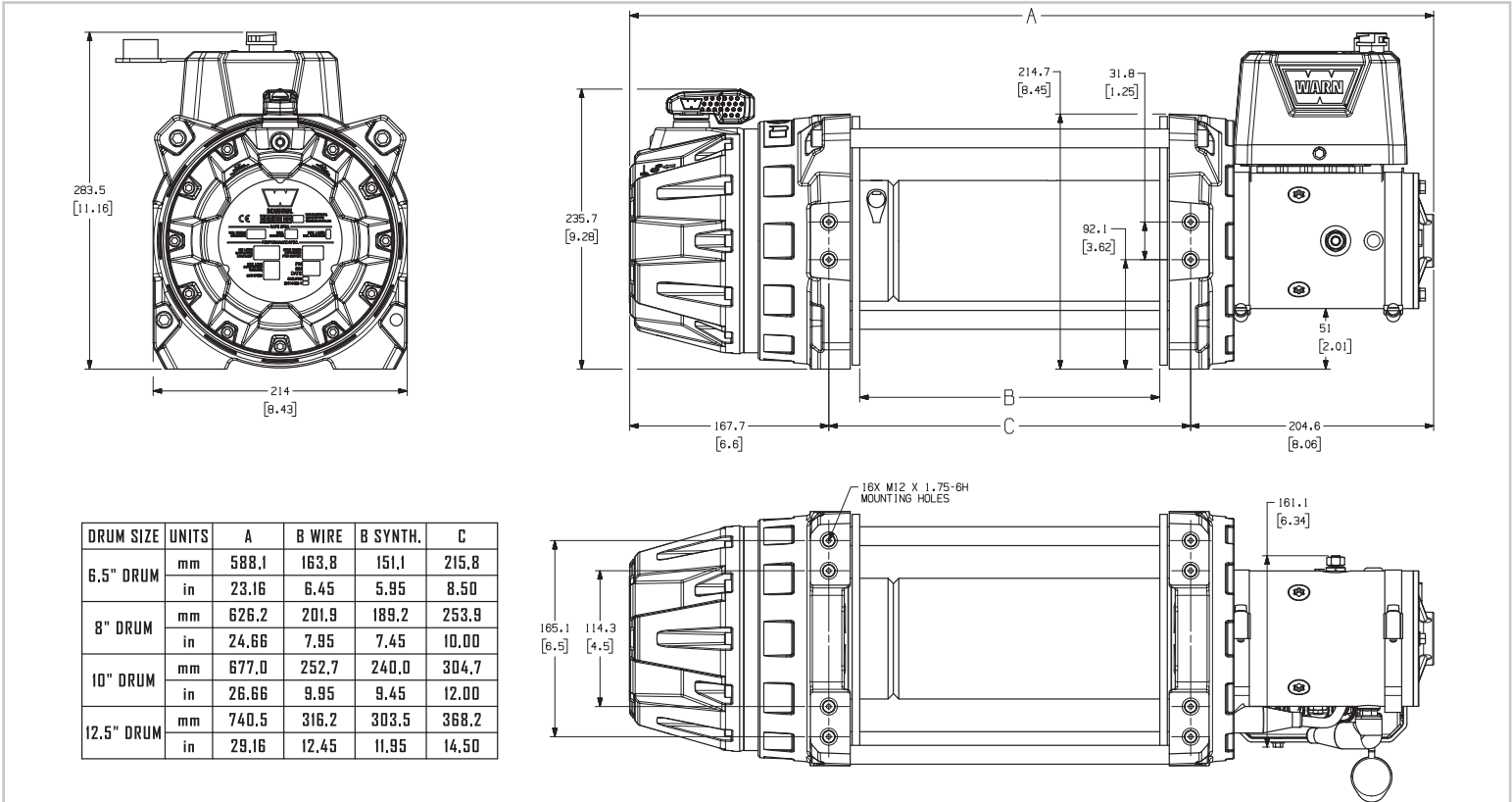
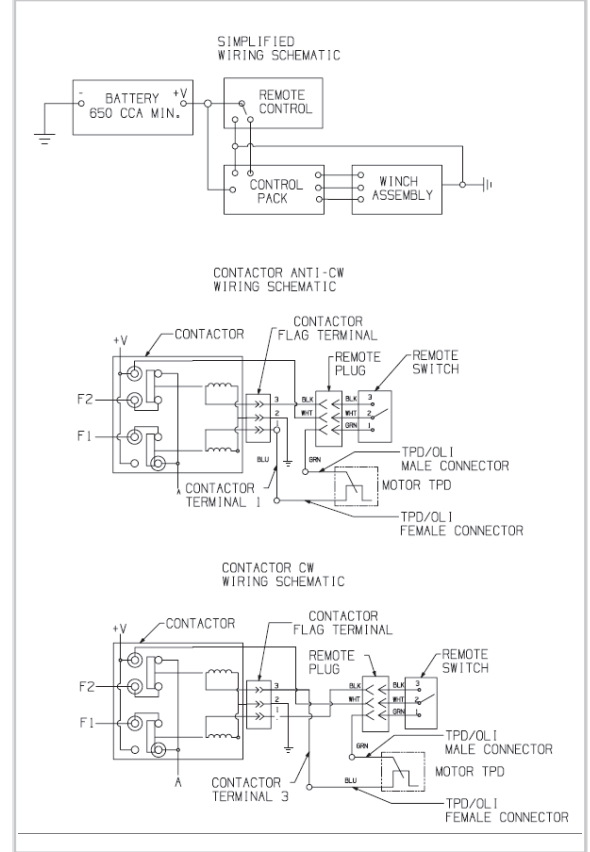
## TOTAL DRUM CAPACITY

ROPE DIAMETER	DRUM LENGTH							
	6.5"		8"		10"		12.5"	
	ft	m	ft	m	ft	m	ft	m
7/16	75	22.9	100	30.5	100	30.5	150	45.7
1/2	60	18.3	60	18.3	75	22.9	100	30.5

## ELECTRICAL SYSTEM SPECIFICATIONS

Battery Voltage:	24V
Minimum Battery Rating:	650 CCA
Maximum Rated Input Speed:	5678 RPM

## WIRING SCHEMATIC



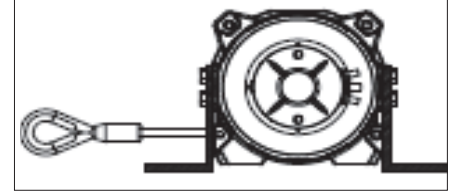
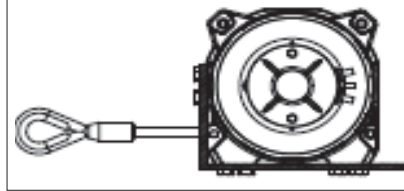
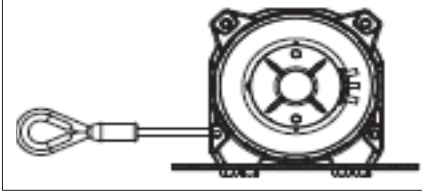


## MOUNTING CONFIGURATIONS

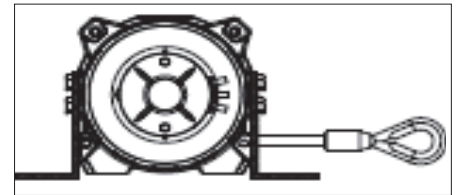
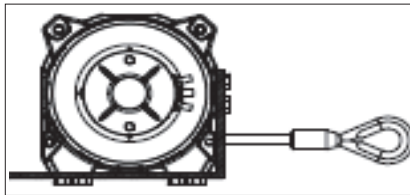
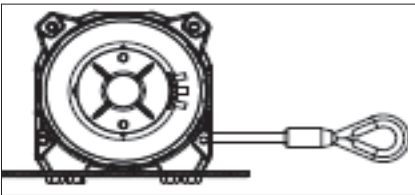
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ALL MOUNTING MUST BE OBSERVED FROM MOTOR END

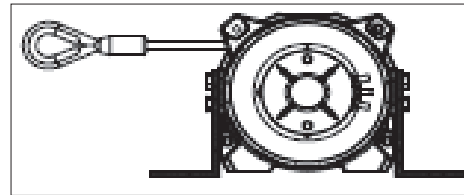
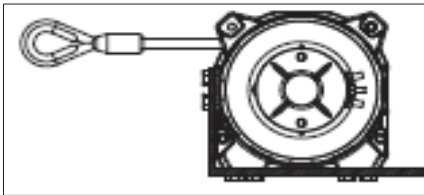
### FEET DOWN, ROPE UNDER DRUM, COMING IN FROM THE LEFT (DUL) - ANTI-CLOCKWISE ROTATION



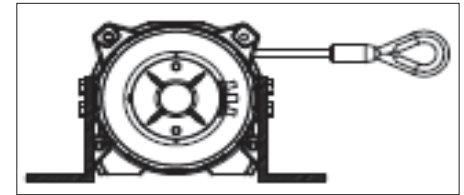
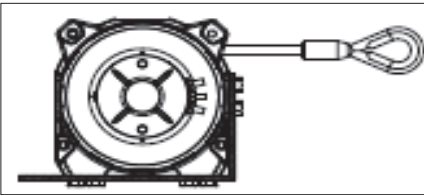
### FEET DOWN, ROPE UNDER DRUM, COMING IN FROM THE RIGHT (DUR) - CLOCKWISE ROTATION



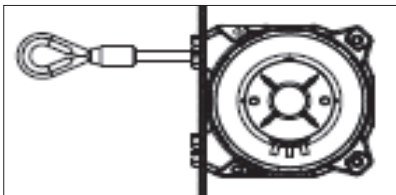
### FEET DOWN, ROPE OVER DRUM, COMING IN FROM THE LEFT (DOL) - CLOCKWISE ROTATION



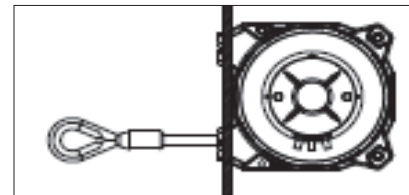
### FEET DOWN, ROPE OVER DRUM, COMING IN FROM THE RIGHT (DOR) - ANTI-CLOCKWISE ROTATION



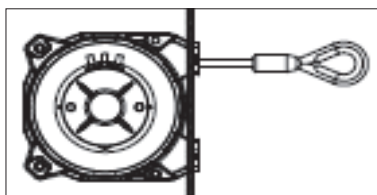
### FEET FORWARD, ROPE OVER DRUM, COMING IN FROM THE LEFT (FOL) - CLOCKWISE



### FEET FORWARD, ROPE UNDER DRUM, COMING IN FROM THE LEFT (FUL) - ANTI-CLOCKWISE



### FEET FORWARD, ROPE OVER DRUM, COMING IN FROM THE RIGHT (FOR) - ANTI-CLOCKWISE



### FEET FORWARD, ROPE UNDER DRUM, COMING IN FROM THE RIGHT (FUR) - CLOCKWISE

