

Electric Winch
Model: **CWG-31500**

P/N: w/5.5 kw x 6P motor
153059 380V50Hz **155182** 380V50Hz
159521 415V50Hz

Introduction

► Feature

Lifting capacity	3,500 kg at 50Hz wire rope top layer
Lifting height	144 m
Lifting speed	6P: 5.8-8 m/min at 50Hz ; 8P: 4.4-6 m/min at 50Hz
Brake	Electromagnetic spring-applied failsafe brake
Control	Pendant switch powers the winch

► Unpacking

- Winch assembly 1pc
- Wire rope 16 mm x 200 m w/safety hook for PN:153059 1pc
- Wire rope 18 mm x 150 m w/safety hook for PN:155182,159521 1pc
- Low voltage control ass'y LV-320 1pc
- Pendant switch CPB-161 w/cord 1.25 mm² x 3C x 3 m 1pc

► Read this manual carefully

You should carefully read and understand this manual carefully before operating it. Careless winch operation may result in personal injury hazards or property damage.

► Information requesting or parts ordering

Please specify the followings information:

- Winch part number
- Part description
- Quantity for each part
- Serial number
- Replacement part number

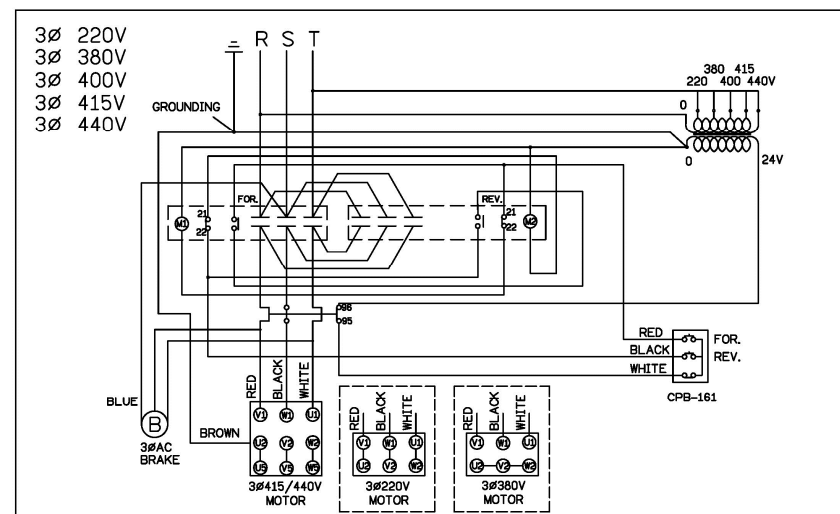
Installation

Before using the winch, make sure all electrical components have no corrosion or damaged; the environment should be clear and dry.

► Performance

Winch Model				CWG-31500																	
Motor		kw x p		5.5 x 6						3.8 x 8											
Recommend		Size(mm)		18																	
Wire Rope		Breaking (kg)		15,000																	
1 st Layer	Rated Load (kg)	50Hz		4,848		Rated Load (kg)	50Hz		4,422		Rated Load (Kg)	50Hz		4,068							
		60Hz		3,878			60Hz		3,538			60Hz		3,252							
	Speed (m/min)	50Hz	6P	5.8	Speed (m/min)	50Hz	6P	6.4	Speed (M/min)	50Hz	6P	6.9									
			8P	4.4			8P	4.8			8P	5.2									
		60Hz	6P	6.9		60Hz	6P	7.6		60Hz	6P	8.2									
			8P	5.2			8P	5.7			8P	6.2									
		Rope-Winding Cumulating Sum (m)				25				Rope-Winding Cumulating Sum (m)			53			Rope-Winding Cumulating Sum (m)			83		
		4 th Layer	Rated Load (kg)	50Hz		3,761		Rated Load (kg)		50Hz		3,500		Rated Load (kg)	50Hz		3,250				
60Hz				3,009		60Hz			2,800		60Hz		2,600								
Speed (m/min)	50Hz		6P	7.5	Speed (m/min)	50Hz	6P	8	Speed (m/min)	50Hz	6P	8.5									
			8P	5.6			8P	6			8P	6.5									
	60Hz		6P	9		60Hz	6P	9.6		60Hz	6P	10.1									
			8P	6.7			8P	7.2			8P	7.7									
	Rope-Winding Cumulating Sum (m)			116			Rope-Winding Cumulating Sum (m)			150			Rope-Winding Cumulating Sum (m)			188					

► Wiring Diagram



Warning

- The winch is not intended to be used in any manner for the movement or lifting of personnel.
- The lifting capacity shown is based on the top layer of rope on the drum.
- The rope winding on the drum shall remain 5 wraps from the drum.

Parts List

Item	No.	Description	Part No.	Qty
	1	Motor kit	As arranged	1
	2	Motor support rack kit	880651	1
	3	Drum kit	880652	1
	4	Connect shaft kit	880653	1
	5	Tie bar kit	880654	4
	6	Gearbox support rack kit	880655	1
	7	3 rd stage carrier kit	881631	1
	8	2 nd stage carrier kit	881632	1
	9	3 rd ring gear kit	880660	1
	10	Fix plate kit	880661	1
	11	1 st stage carrier kit	881625	1
	12	1 st & 2 nd ring gear kit	880664	1
	13	1 st shaft kit	880665	1
	14	Brake base kit	881443	1
	15	Brake kit	As arranged	1
	15-1	Brake disc	880626	2
	15-2	Brake coil	As arranged	1
	16	Brake rear cover kit	880627	1
	17	Wire rope w/hook 16 mm x 200 m	881362	1
		Wire rope w/hook 18 mm x 150 m	880669	
	18	Low voltage control ass'y LV-320	As arranged	1
	18-1	Remote control,CPB-161	881047	1
	19	Base plate kit	880671	1

Part No. configurations:

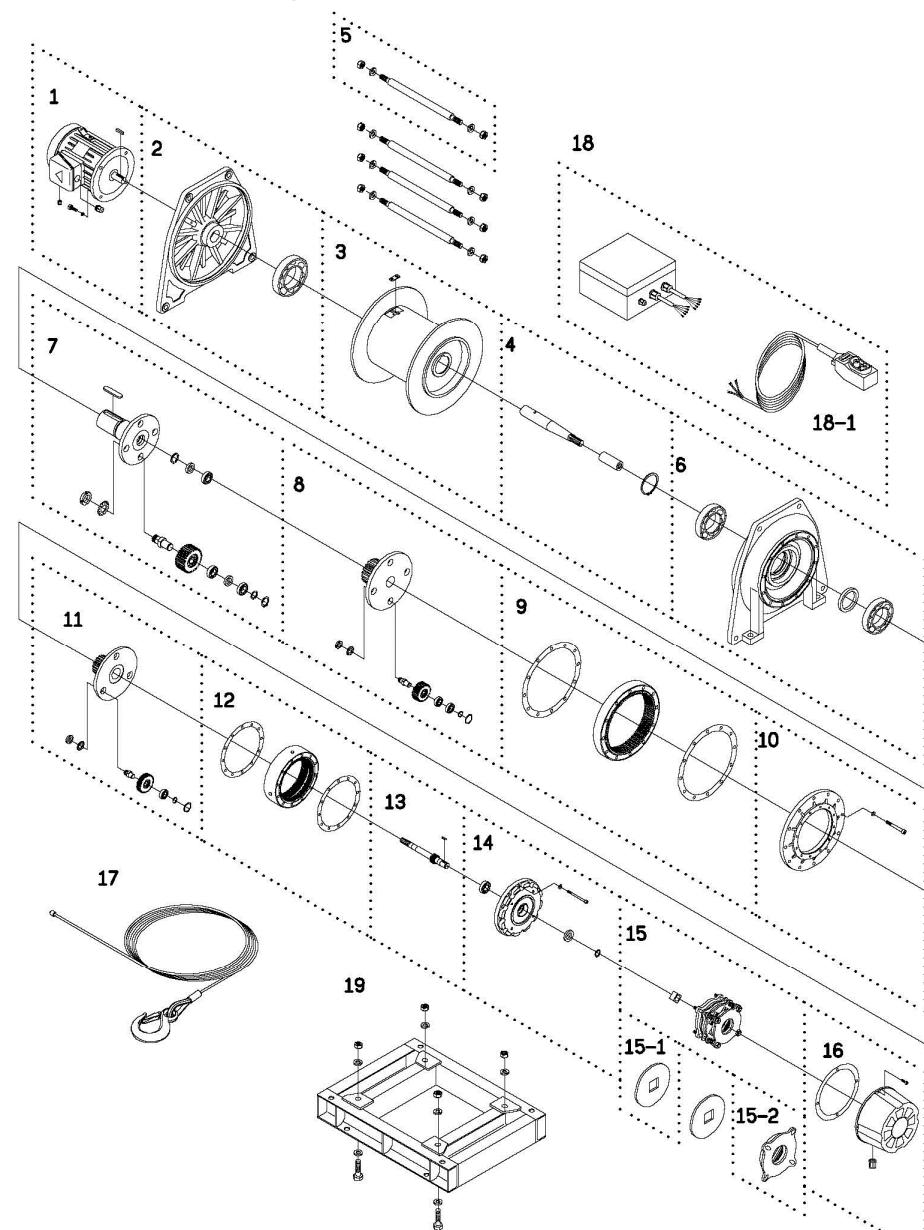
Cycle	Voltage	kw x p	Motor
50 Hz	380 V	5.5 x 6	880674
50 Hz	415 V	5.5 x 6	880675

Cycle	Voltage	Brake kit	Brake coil	LV-320
50 Hz	380 V	881360	880648	881826
50 Hz	415 V	881361	880649	881831

Standard Value for brake coil (50Hz):

Voltage	220V	380V	415V	440V
Black & Blue wires	28Ω	108Ω	117Ω	126Ω
Black & Red wires	12Ω	48Ω	52Ω	56Ω
Red & Blue wires	15Ω	54Ω	62Ω	70Ω

Winch Assembly



Ver:4