

PRODUCT SPECIFICATION

53 Series General Purpose Contactors



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General Purpose Contactors



WERNER'S 53 series general purpose contactors are most robust, economical and readily accepted by all segments of industries where a prime mover is involved. It is an electro-mechanical switch to start a motor.

Features Overview

- Ranging from 9 A to 150 A, built in NO & NC contacts
- Available with DC coil voltages in 24V, 48V & 110V
- Also coil voltages 24V, 48V, 110V, 220V, 240V, 380V & 415V AC
- Chatter-free operation with easy Installation and simple wiring

Highlights

- Most reliable & economical electro-mechanical switch
- Contact kits made of weld-resistant silver alloy make it more reliable
- Pre-wired reversing contactors with mechanical interlock also in the range
- Accessories include top & side mounted blocks, surge suppressors & timers
- Low power consumption with mechanical life span up to 2 Million operations

53 series contactors includes reversing contactors also, featuring weld-resistant silver alloy contacts providing unparalleled reliability, ranging from 9 Amps to 150 Amps available in AC and DC coils with a life of 2 million operations. The coils are designed for low power consumption. Chatter free operation eliminates contact welding and coil failures.

Range of accessories include top and side mounting auxiliary contact blocks, coil surge suppressors, relay interface modules and timers. Din installation rail support and standardized terminal spacing make installation and wiring simple.

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Model Number Selection

Appearance	Coil Type	Coil Voltage	Contacts	Current Capacity	Reversing Model Number	Contactors Model Number
	AC	24 V	1 NC	9 A	53.30.009.01.024	53.10.009.01.024
				12 A	53.30.012.01.024	53.10.012.01.024
				18 A	53.30.018.01.024	53.10.018.01.024
				25 A	53.30.025.01.024	53.10.025.01.024
				32 A	53.30.032.01.024	53.10.032.01.024
				38 A	53.30.038.01.024	53.10.038.01.024
			1 NO	9 A	53.30.009.10.024	53.10.009.10.024
				12 A	53.30.012.10.024	53.10.012.10.024
				18 A	53.30.018.10.024	53.10.018.10.024
				25 A	53.30.025.10.024	53.10.025.10.024
				32 A	53.30.032.10.024	53.10.032.10.024
				38 A	53.30.038.10.024	53.10.038.10.024
			1 NO - 1 NC	40 A	53.30.040.11.024	53.10.040.11.024
				50 A	53.30.050.11.024	53.10.050.11.024
				65 A	53.30.065.11.024	53.10.065.11.024
				80 A	53.30.080.11.024	53.10.080.11.024
				95 A	53.30.095.11.024	53.10.095.11.024
				115 A	53.30.115.00.024	53.10.115.00.024
			No Contacts	150 A	53.30.150.00.024	53.10.150.00.024
	AC	48 V	1 NC	9 A	53.30.009.01.048	53.10.009.01.048
				12 A	53.30.012.01.048	53.10.012.01.048
				18 A	53.30.018.01.048	53.10.018.01.048
				25 A	53.30.025.01.048	53.10.025.01.048
				32 A	53.30.032.01.048	53.10.032.01.048
				38 A	53.30.038.01.048	53.10.038.01.048
			1 NO	9 A	53.30.009.10.048	53.10.009.10.048
				12 A	53.30.012.10.048	53.10.012.10.048
				18 A	53.30.018.10.048	53.10.018.10.048
				25 A	53.30.025.10.048	53.10.025.10.048
				32 A	53.30.032.10.048	53.10.032.10.048
				38 A	53.30.038.10.048	53.10.038.10.048
			1 NO - 1 NC	40 A	53.30.040.11.048	53.10.040.11.048
				50 A	53.30.050.11.048	53.10.050.11.048
				65 A	53.30.065.11.048	53.10.065.11.048
				80 A	53.30.080.11.048	53.10.080.11.048
				95 A	53.30.095.11.048	53.10.095.11.048
				115 A	53.30.115.00.048	53.10.115.00.048
			No Contacts	150 A	53.30.150.00.048	53.10.150.00.048
	AC	110 V	1 NC	9 A	53.30.009.01.110	53.10.009.01.110
				12 A	53.30.012.01.110	53.10.012.01.110
				18 A	53.30.018.01.110	53.10.018.01.110
				25 A	53.30.025.01.110	53.10.025.01.110
				32 A	53.30.032.01.110	53.10.032.01.110
				38 A	53.30.038.01.110	53.10.038.01.110
			1 NO	9 A	53.30.009.10.110	53.10.009.10.110
				12 A	53.30.012.10.110	53.10.012.10.110
				18 A	53.30.018.10.110	53.10.018.10.110
				25 A	53.30.025.10.110	53.10.025.10.110
				32 A	53.30.032.10.110	53.10.032.10.110
				38 A	53.30.038.10.110	53.10.038.10.110
			1 NO - 1 NC	40 A	53.30.040.11.110	53.10.040.11.110
				50 A	53.30.050.11.110	53.10.050.11.110
				65 A	53.30.065.11.110	53.10.065.11.110
				80 A	53.30.080.11.110	53.10.080.11.110
				95 A	53.30.095.11.110	53.10.095.11.110
				115 A	53.30.115.00.110	53.10.115.00.110
			No Contacts	150 A	53.30.150.00.110	53.10.150.00.110

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Model Number Selection

Appearance	Coil Type	Coil Voltage	Contacts	Current Capacity	Reversing Model Number	Contactors Model Number
	AC	220 V	1 NC	9 A	53.30.009.01.220	53.10.009.01.220
				12 A	53.30.012.01.220	53.10.012.01.220
				18 A	53.30.018.01.220	53.10.018.01.220
				25 A	53.30.025.01.220	53.10.025.01.220
				32 A	53.30.032.01.220	53.10.032.01.220
				38 A	53.30.038.01.220	53.10.038.01.220
			1 NO	9 A	53.30.009.10.220	53.10.009.10.220
				12 A	53.30.012.10.220	53.10.012.10.220
				18 A	53.30.018.10.220	53.10.018.10.220
				25 A	53.30.025.10.220	53.10.025.10.220
				32 A	53.30.032.10.220	53.10.032.10.220
				38 A	53.30.038.10.220	53.10.038.10.220
			1 NO - 1 NC	40 A	53.30.040.11.220	53.10.040.11.220
				50 A	53.30.050.11.220	53.10.050.11.220
				65 A	53.30.065.11.220	53.10.065.11.220
				80 A	53.30.080.11.220	53.10.080.11.220
				95 A	53.30.095.11.220	53.10.095.11.220
			No Contacts	115 A	53.30.115.00.220	53.10.115.00.220
				150 A	53.30.150.00.220	53.10.150.00.220
	AC	240 V	1 NC	9 A	53.30.009.01.240	53.10.009.01.240
				12 A	53.30.012.01.240	53.10.012.01.240
				18 A	53.30.018.01.240	53.10.018.01.240
				25 A	53.30.025.01.240	53.10.025.01.240
				32 A	53.30.032.01.240	53.10.032.01.240
				38 A	53.30.038.01.240	53.10.038.01.240
			1 NO	9 A	53.30.009.10.240	53.10.009.10.240
				12 A	53.30.012.10.240	53.10.012.10.240
				18 A	53.30.018.10.240	53.10.018.10.240
				25 A	53.30.025.10.240	53.10.025.10.240
				32 A	53.30.032.10.240	53.10.032.10.240
				38 A	53.30.038.10.240	53.10.038.10.240
			1 NO - 1 NC	40 A	53.30.040.11.240	53.10.040.11.240
				50 A	53.30.050.11.240	53.10.050.11.240
				65 A	53.30.065.11.240	53.10.065.11.240
				80 A	53.30.080.11.240	53.10.080.11.240
				95 A	53.30.095.11.240	53.10.095.11.240
			No Contacts	115 A	53.30.115.00.240	53.10.115.00.240
				150 A	53.30.150.00.240	53.10.150.00.240
	AC	380 V	1 NC	9 A	53.30.009.01.380	53.10.009.01.380
				12 A	53.30.012.01.380	53.10.012.01.380
				18 A	53.30.018.01.380	53.10.018.01.380
				25 A	53.30.025.01.380	53.10.025.01.380
				32 A	53.30.032.01.380	53.10.032.01.380
				38 A	53.30.038.01.380	53.10.038.01.380
			1 NO	9 A	53.30.009.10.380	53.10.009.10.380
				12 A	53.30.012.10.380	53.10.012.10.380
				18 A	53.30.018.10.380	53.10.018.10.380
				25 A	53.30.025.10.380	53.10.025.10.380
				32 A	53.30.032.10.380	53.10.032.10.380
				38 A	53.30.038.10.380	53.10.038.10.380
			1 NO - 1 NC	40 A	53.30.040.11.380	53.10.040.11.380
				50 A	53.30.050.11.380	53.10.050.11.380
				65 A	53.30.065.11.380	53.10.065.11.380
				80 A	53.30.080.11.380	53.10.080.11.380
				95 A	53.30.095.11.380	53.10.095.11.380
			No Contacts	115 A	53.30.115.00.380	53.10.115.00.380
				150 A	53.30.150.00.380	53.10.150.00.380

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Model Number Selection

Appearance	Coil Type	Coil Voltage	Contacts	Current Capacity	Reversing Model Number	Contactors Model Number
	AC	415 V	1 NC	9 A	53.30.009.01.415	53.10.009.01.415
				12 A	53.30.012.01.415	53.10.012.01.415
				18 A	53.30.018.01.415	53.10.018.01.415
				25 A	53.30.025.01.415	53.10.025.01.415
				32 A	53.30.032.01.415	53.10.032.01.415
				38 A	53.30.038.01.415	53.10.038.01.415
			1 NO	9 A	53.30.009.10.415	53.10.009.10.415
				12 A	53.30.012.10.415	53.10.012.10.415
				18 A	53.30.018.10.415	53.10.018.10.415
				25 A	53.30.025.10.415	53.10.025.10.415
				32 A	53.30.032.10.415	53.10.032.10.415
				38 A	53.30.038.10.415	53.10.038.10.415
			1 NO - 1 NC	40 A	53.30.040.11.415	53.10.040.11.415
				50 A	53.30.050.11.415	53.10.050.11.415
				65 A	53.30.065.11.415	53.10.065.11.415
				80 A	53.30.080.11.415	53.10.080.11.415
				95 A	53.30.095.11.415	53.10.095.11.415
			No Contacts	115 A	53.30.115.00.415	53.10.115.00.415
				150 A	53.30.150.00.415	53.10.150.00.415

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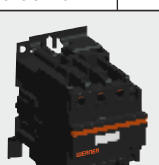
Model Number Selection

Appearance	Coil Type	Coil Voltage	Contacts	Current Capacity	Reversing Model Number	Contactors Model Number
	DC	24 V	1 NC	9 A	53.40.009.01.024	53.20.009.01.024
				12 A	53.40.012.01.024	53.20.012.01.024
				18 A	53.40.018.01.024	53.20.018.01.024
				25 A	53.40.025.01.024	53.20.025.01.024
				32 A	53.40.032.01.024	53.20.032.01.024
				38 A	53.40.038.01.024	53.20.038.01.024
			1 NO	9 A	53.40.009.10.024	53.20.009.10.024
				12 A	53.40.012.10.024	53.20.012.10.024
				18 A	53.40.018.10.024	53.20.018.10.024
				25 A	53.40.025.10.024	53.20.025.10.024
				32 A	53.40.032.10.024	53.20.032.10.024
				38 A	53.40.038.10.024	53.20.038.10.024
			1 NO - 1 NC	40 A	53.40.040.11.024	53.20.040.11.024
				50 A	53.40.050.11.024	53.20.050.11.024
				65 A	53.40.065.11.024	53.20.065.11.024
				80 A	—	53.20.080.11.024
			No Contacts	95 A	—	53.20.095.11.024
				115 A	—	53.20.115.00.024
				150 A	—	53.20.150.00.024
	DC	48 V	1 NC	9 A	53.40.009.01.048	53.20.009.01.048
				12 A	53.40.012.01.048	53.20.012.01.048
				18 A	53.40.018.01.048	53.20.018.01.048
				25 A	53.40.025.01.048	53.20.025.01.048
				32 A	53.40.032.01.048	53.20.032.01.048
				38 A	53.40.038.01.048	53.20.038.01.048
			1 NO	9 A	53.40.009.10.048	53.20.009.10.048
				12 A	53.40.012.10.048	53.20.012.10.048
				18 A	53.40.018.10.048	53.20.018.10.048
				25 A	53.40.025.10.048	53.20.025.10.048
				32 A	53.40.032.10.048	53.20.032.10.048
				38 A	53.40.038.10.048	53.20.038.10.048
			1 NO - 1 NC	40 A	53.40.040.11.048	53.20.040.11.048
				50 A	53.40.050.11.048	53.20.050.11.048
				65 A	53.40.065.11.048	53.20.065.11.048
				80 A	—	53.20.080.11.048
			No Contacts	95 A	—	53.20.095.11.048
				115 A	—	53.20.115.00.048
				150 A	—	53.20.150.00.048
	DC	110 V	1 NC	9 A	53.40.009.01.110	53.20.009.01.110
				12 A	53.40.012.01.110	53.20.012.01.110
				18 A	53.40.018.01.110	53.20.018.01.110
				25 A	53.40.025.01.110	53.20.025.01.110
				32 A	53.40.032.01.110	53.20.032.01.110
				38 A	53.40.038.01.110	53.20.038.01.110
			1 NO	9 A	53.40.009.10.110	53.20.009.10.110
				12 A	53.40.012.10.110	53.20.012.10.110
				18 A	53.40.018.10.110	53.20.018.10.110
				25 A	53.40.025.10.110	53.20.025.10.110
				32 A	53.40.032.10.110	53.20.032.10.110
				38 A	53.40.038.10.110	53.20.038.10.110
			1 NO - 1 NC	40 A	53.40.040.11.110	53.20.040.11.110
				50 A	53.40.050.11.110	53.20.050.11.110
				65 A	53.40.065.11.110	53.20.065.11.110
				80 A	—	53.20.080.11.110
			No Contacts	95 A	—	53.20.095.11.110
				115 A	—	53.20.115.00.110
				150 A	—	53.20.150.00.110

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Technical Data

Contactor Type	Rated Operational Current		Rated Operational Power In AC-3						Rated Operational Voltage	Number Of Poles
	I _e max AC-3 (U _e ≤ 440 V)	I _e AC-1 (θ ≤ 60 °C)	220/240 V	380/400 V	415/440 V	500 V	660/690 V	1000 V		
 53.10.009.10.*** 1NO 53.10.009.01.*** 1NC	9 A	20/25 A	2.2 kW	4 kW	4 kW	5.5 kW	5.5 kW	-	690 V AC & DC	3
 53.10.012.10.*** 1NO 53.10.012.01.*** 1NC	12 A	20/25 A	3 kW	5.5 kW	5.5 kW	7.5 kW	7.5 kW	-	690 V AC & DC	3
 53.10.018.10.*** 1NO 53.10.018.01.*** 1NC	18 A	25/32 A	4 kW	7.5 kW	9 kW	10 kW	10 kW	-	690 V AC & DC	3
 53.10.025.10.*** 1NO 53.10.025.01.*** 1NC	25 A	25/40 A	5.5 kW	11 kW	11 kW	15 kW	15 kW	-	690 V AC & DC	3
 53.10.032.10.*** 1NO 53.10.032.01.*** 1NC	32 A	50 A	7.5 kW	15 kW	15 kW	18.5 kW	18.5 kW	-	690 V AC & DC	3
 53.10.038.10.*** 1NO 53.10.038.01.*** 1NC	38 A	50 A	9 kW	18.5 kW	18.5 kW	18.5 kW	18.5 kW	-	690 V AC & DC	3

Replace 53.10. to 53.20. for DC coil option. For more information refer to page no 1 - 4.

*** Refer to page no 4 to choose the appropriate coil voltage.

53 Series General Purpose Contactors

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Technical Data

Contactor Type		Rated Operational Current		Rated Operational Power in AC-3						Rated Operational Voltage	Number Of Poles
Model Number	Contacts	I _e AC-3 U _e ≤ 440V	I _e AC-1 θ ≤ 60°C	220/240 V	380/400 V	415/440 V	500 V	660/690 V	1000 V		
		40 A	60 A	11 kW	18.5 kW	22 kW	22 kW	30 kW	-	690 V AC & DC	3
53.10.040.11.***	1NO-1NC										
		50 A	80 A	15 kW	22 kW	25/30 kW	30 kW	33 kW	-	690 V AC & DC	3
53.10.050.11.***	1NO-1NC										
		65 A	80 A	18.5 kW	730 kW	37 kW	37 kW	37 kW	-	690 V AC & DC	3
53.10.065.11.***	1NO-1NC										
		80 A	125 A	22 kW	37 kW	45 kW	55 kW	45 kW	45 kW	690 V AC & DC	3
53.10.080.11.***	1NO-1NC										
		95 A	125 A	25 kW	45 kW	45 kW	55 kW	45 kW	45 kW	690 V AC & DC	3
53.10.095.11.***	1NO-1NC										
		115 A	200 A	30 kW	55 kW	59 kW	75 kW	80 kW	75 kW	690 V AC & DC	3
53.10.115.00.***	—										
		150 A	200 A	40 kW	75 kW	80 kW	90 kW	100 kW	90 kW	690 V AC & DC	3
53.10.150.00.***	—										

Replace 53.10. to 53.20. for *DC coil* option. For more information refer to page no 1 - 4.

*** Refer to page no 4 to choose the appropriate *coil voltage*.

53 Series General Purpose Contactors

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Model Number Structure - Contactors



53.10.040.11.380

53 Series	
General Purpose Contactors	

Coil Type	
10	AC Coil
20	DC Coil
30	AC Coil - Reversing
40	DC Coil - Reversing

Current Capacity	
009	9 A
012	12 A
018	18 A
025	25 A
032	32 A
038	38 A
040	40 A
050	50 A
065	65 A
080	80 A
095	95 A
115	115 A
150	150 A

Coil Voltage	
024	24 V
048	48 V
110	110 V
220	220 V
240	240 V
380	380 V
415	415 V

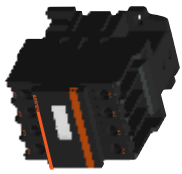
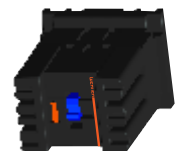
Contacts	
00	No Contacts
10	1 NO
01	1 NC
11	1NO-1NC

Note: DC Reversings for 80, 95, 115 and 150 A are underdevelopment.
For more information about *contacts*, please refer to page no. 1 - 4.

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Contactor Properties

Contactor Type	Contacts		Degree Of Protection	Rated Insulation Voltage (u)	Rated Impulse Withstand Voltage (uimp)	Vibration Resistance 5 To 300 Hz	Shock resistance ½ Sine Wave = 11 Ms	Ambient Air Temperature Around The Device	Maximum Operating Altitude	Operating positions
	Model Number	Power Circuit & Coil								
	1NO	1NC	IP 20	690	600	2gn	15gn	- 60 to + 80	3000	Without Derating In the Following Positions
	53.10.009.10.***	53.10.009.01.***								
	53.10.012.10.***	53.10.012.01.***								
	53.10.018.10.***	53.10.018.01.***								
	1NO	1NC	IP 20	690	600	2gn	15gn	- 60 to + 80	3000	Without Derating In the Following Positions
	53.10.025.10.***	53.10.025.10.***								
	53.10.032.10.***	53.10.032.10.***								
	53.10.038.10.***	53.10.038.10.***								
	1NO-1NC		IP 20	1000	600	2gn	15gn	- 60 to + 80	3000	Without Derating In the Following Positions
	53.10.040.11.***									
	53.10.050.11.***									
	53.10.065.11.***									
	1NO-1NC		IP 20	1000	600	2gn	10gn	- 60 to + 80	3000	Without Derating In the Following Positions
	53.10.080.11.***									
	53.10.095.11.***									
	53.10.150.00.***									
	No Contacts		IP 20	1000	600	2gn	15gn	- 60 to + 80	3000	Without Derating In the Following Positions
	53.10.115.00.***									
	53.10.130.00.***									
	53.10.145.00.***									

*** Refer to page no 4 to choose the appropriate coil voltage.

Replace 53.10. to 53.20. for DC coil option. For more information refer to page no 1 - 4.

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Control Circuit Connections

Contactor Type		53.10.009.10.*** 53.10.012.10.*** 53.10.009.01.*** 53.10.012.01.***	53.10.018.10.*** 53.10.018.01.***	53.10.025.10.*** 53.10.025.01.***	53.10.032.10.*** 53.10.038.10.*** 53.10.032.01.*** 53.10.038.01.***	53.10.040.11.*** 53.10.050.11.*** 53.10.065.11.***	53.10.080.11.*** 53.10.095.11.***	53.10.115.00.*** 53.10.150.00.***	
Flexible cable with cable end	1 conductor	1to4	1to4	1to4	1to4	1to4	1to4	1to4	mm ²
	2 conductors	1to2.5	1to2.5	1to2.5	1to2.5	1to2.5	1to2.5	1to2.5	mm ²
Flexible cable without cable end	1 conductor	1to4	1to4	1to4	1to4	1to4	1to4	1to4	mm ²
	2 conductors	1to4	1to4	1to4	1to4	1to4	1to4	1to4	mm ²
Solid cable without cable end	1 conductor	1to4	1to4	1to4	1to4	1to4	1to4	1to4	mm ²
	2 conductors	1to4	1to4	1to4	1to4	1to4	1to4	1to4	mm ²
Screwdriver	Phillips	N° 2	N° 2	N° 2	N° 2	N° 2	N° 2	N° 2	
	Flat screwdriver	Ø6	Ø6	Ø6	Ø6	Ø6	Ø6	Ø6	
Tightening torque in		1.7	1.7	1.7	1.7	1.7	1.2	1.2	N.m

Spring Terminal Connections

Flexible cable without cable end	1 conductor	2.5	2.5	2.5	2.5	0.75 to 2.5	–	–	mm ²
	2 conductors	2.5	2.5	2.5	2.5	0.75 to 2.5	–	–	mm ²

Power Circuit Connections

Tightening		Screw clamp terminals				Screw clamp terminals	Connector 1 input	Connector 2 input	
Flexible cable with cable end	1 conductor	1 to 4	1 to 6	1 to 10	1 to 10	1 to 35	4 to 50	10 to 120	mm ²
	2 conductors	1to 25	1 to 4	1.5 to 6	1.5 to 6	1 to 25	4 to 16	10 to 120	mm ²
Flexible cable without cable end	1 conductor	1 to 4	1.5 to 6	2.5 to 10	2.5 to 10	1 to 35	4 to 50	10 to 120	mm ²
	2 conductors	1 to 4	1.5 to 6	2.5 to 10	2.5 to 10	1 to 25	4 to 25	10 to 120	mm ²
Solid cable without cable end	1 conductor	1 to 4	1.5 to 6	1.5 to 10	1.5 to 10	1 to 35	4 to 50	10 to 120	mm ²
	2 conductors	1 to 25	1 to 4	1.5 to 6	1.5 to 6	1 to 25	4 to 2	10 to 120	mm ²
Hexagonal key		–	–	–	–	4	4	4	
Tightening torque		1.7	1.7	2.5	2.5	5	9	12	
Screwdriver	Phillips	N° 2	N° 2	N° 2	N° 2	–	–	–	
	Flat screwdriver Ø	Ø 6	Ø 6	Ø 6	Ø 6	–	–	Ø 6 to Ø8	

Spring Terminal Connections

Flexible cable without cable end	1 conductor	2.5	4	4	4	–	–	–	mm ²
	2 conductors	2.5	4	4	4	–	–	–	mm ²

AC Control Circuit Properties

Contactor Type			53.10.009.□□.□□.*** 53.10.012.□□.□□.*** 53.10.018.□□.□□.*** 53.10.025.□□.□□.***	53.10.032.□□.□□.*** 53.10.038.□□.□□.***	53.10.040.□□.□□.*** 53.10.050.□□.□□.*** 53.10.065.□□.□□.***	53.10.080.□□.□□.*** 53.10.095.□□.□□.***	53.10.115.□□.□□.***	53.10.150.□□.□□.***		
Rated control circuit voltage (Uc)	50/60 Hz	12 to 690	12 to 690	12 to 690	12 to 690	12 to 690	12 to 500	V		
Average consumption at 20 °C	AC 50/60 Hz	50 Hz coil	–	–	–	200	300	–	VA	
		Cos	0.75	0.75	0.75	0.75	0.8	0.9		
	Inrush	50/60 Hz coil	70	70	70	245	280 to 350	280 to 350	VA	
		Sealed	50 Hz coil	–	–	–	20	22	–	VA
			Cos	0.3	0.3	0.3	0.3	0.3	0.9	
			50/60 Hz coil	7	7	15	26	2 to 18	2 to 18	VA
Operating time		Closing "C"	12 to 22	12 to 22	12 to 26	12 to 26	20 to 35	20 to 50	ms	
		Opening "O"	4 to 19	4 to 19	4 to 19	4 to 19	40.75	6 to 20	ms	
Mechanical durability in millions of operating cycles	50/60 Hz coil on 50	–	–	–	10	10	8			
	50/60 Hz coil on 50 Hz	15	1	6	4	4	8			
Heat dissipation	50/60 Hz	2 to 3	2 to 3	2 to 3	6 to 4	3 to 4.5	3 to 8	W		
Maximum operating rate	In operating cycles / hour	3600	3600	3600	3600	3600	2400			

□□ Refer to page no 1 - 4 to choose the appropriate contacts.

*** Refer to page no 4 to choose the appropriate coil voltage.

Screw clamps type.

53 Series General Purpose Contactors

WERNER

DC. Control Circuit Properties

Contactor Type		53.20.009.□□.*** 53.20.012.□□.*** 53.20.018.□□.*** 53.20.025.□□.*** 53.20.032.□□.*** 53.20.038.□□.***	53.20.040.□□.*** 53.20.050.□□.*** 53.20.065.□□.***	53.20.080.□□.*** 53.20.095.□□.***	53.20.115.□□.*** 53.20.150.□□.***	
Rated insulation voltage		690	690	690	690	V
Rated control circuit voltage(Uc)		600	600	600	600	V
Control voltage limits	Operation coil	12 to 440	12 to 440	12 to 440	24 to 440	V
	Drop-out	0.7 to 1.25 Uc at 60 °C	0.75 to 1.25 Uc at 60 °C	0.85 to 1.1 Uc at 55 °C	0.75 to 1.2 Uc at 55 °C	
Time constant (L/R)		0.1 to 0.25 Uc at 60 °C	0.1 to 0.3 Uc at 60 °C	0.1 to 0.3 Uc at 55 °C	0.15 to 0.4 Uc at 55 °C	
Operating time average at Uc	Closing "C"	28	34	75	25	ms
	Opening "O"	63 ± 15 %	50 ± 15%	95 to 130	20 to 35	ms
Average consumption at 20 °C and at Uc	Inrush	20 ± 20 %	20 ± 20%	20 to 35	40 to 75	ms
	Sealed	5.4	19	22	270 to 365	W
Mechanical durability at Uc		5.4	7.4	22	2.4 to 5.1	W
Maximum operating rate	In millions of operating cycles	30	10	10	8	
	In operating cycles / hour	3600	3600	3600	1200	

Properties Of Auxiliary Contacts

Rated insulation voltage		690	V
Rated operational voltage	Up to	690	V
Minimum switching capacity $\lambda = 10^{-8}$	U min	17	V
	I min	5	mA
Conventional thermal current (Ith)		10	A
Frequency of the operational current		25 to 400	Hz
Rated making capacity		AC : 140, DC : 250	A
Short-time rating	Permissible for	1 s	100
		500 ms	120
		100 ms	140
Non-overlap time	Guaranteed between N/C and N/O contacts	1.5 (on energisation and on de-energisation)	ms
Insulation resistance		> 10	MΩ

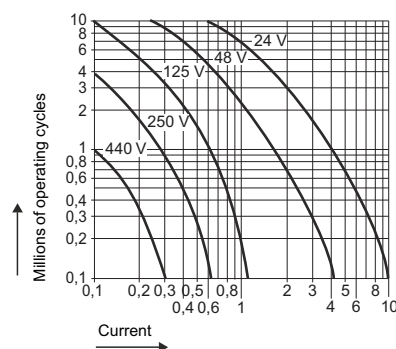
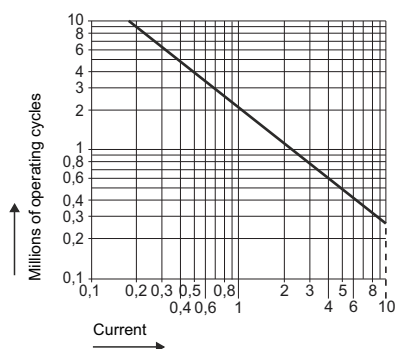
AC

Electrical durability (valid for up to 3600 operating cycles per hour on an inductive load) - AC-14 and AC-15

DC

Electrical durability (valid for up to 1200 operating cycles per hour on an inductive load) - DC-13

	24	48	115	230	400	440	600	V		24	48	125	250	440	V
1 million operating cycles	60	120	280	560	960	1050	1440	VA	1 million operating cycles	96	76	76	76	44	W
3 million operating cycles	16	32	80	160	280	300	420	VA	3 million operating cycles	48	38	38	38	—	W
10 million operating cycles	4	8	20	40	70	80	100	VA	10 million operating cycles	14	12	12	—	—	W



□□ Refer to page no 1 - 4 to choose the appropriate contacts.

*** Refer to page no 4 to choose the appropriate coil voltage.

53 Series General Purpose Contactors

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Pole Characteristics

Properties	53.10.009, □□, ***	53.10.012, □□, ***	53.10.018, □□, ***	53.10.025, □□, ***	53.10.032, □□, ***	
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Rated operational current (Ie)	In AC-3, $\Theta \leq 60^\circ\text{C}$	9	12	18	25	32	A
	In AC-1, $\Theta \leq 60^\circ\text{C}$	25	25	32	40	50	A
Average impedance per pole	At Ith and 50 Hz	2.5	2.5	2.5	2	2	WΩ
Permissible short time rating	For 1 s	210	210	240	380	430	A
No current flowing for preceding 15 minutes with $\Theta < 40^\circ\text{C}$	For 10 s	105	105	145	240	260	A
	For 1 min	61	61	84	120	138	A
	For 10 min	30	30	40	50	60	A
Conventional thermal current (Ith)	$\Theta \leq 60^\circ\text{C}$	25	25	32	40	50	A
Rated breaking capacity (440 V)	Conforming to IEC 60947	250	250	300	450	550	A
Power dissipation per pole for the above operational currents	AC-3	0.20	0.36	0.8	1.25	2	W
	AC-1	1.56	1.56	2.5	3.2	5	W
Frequency limits	Of the operational current	25 to 400	25 to 400	25 to 400	25 to 400	25 to 400	Hz
Rated operational voltage (Ue)	up to	690	690	690	690	690	V
Rated making capacity (440 V)	Conforming to IEC 60947	250	250	300	450	550	A
Fuse protection against short-circuits ($U \leq 690\text{ V}$)	Without thermal overload relay	25	40	50	63	63	A

Properties	53.10.038, □□, ***	53.10.040, □□, ***	53.10.050, □□, ***	53.10.065, □□, ***	
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Rated operational current (Ie)	In AC-3, $\Theta \leq 60^\circ\text{C}$	38	40	50	65	A
	In AC-1, $\Theta \leq 60^\circ\text{C}$	50	60	80	80	A
Average impedance per pole	At Ith and 50 Hz	2	1.5	1.5	1.5	WΩ
Permissible short time rating	For 1 s	310	720	810	900	A
No current flowing for preceding 15 minutes with $\Theta < 40^\circ\text{C}$	For 10 s	150	320	400	520	A
	For 1 min	60	165	208	260	A
	For 10 min	63	72	84	110	A
Conventional thermal current (Ith)	$\Theta \leq 60^\circ\text{C}$	50	60	80	80	A
Rated breaking capacity (440 V)	Conforming to IEC 60947	550	800	900	1000	A
Power dissipation per pole for the above operational currents	AC-3	3	2.4	3.7	6.3	W
	AC-1	5	5.4	9.6	9.6	W
Frequency limits	Of the operational current	25 to 400	25 to 400	25 to 400	25 to 400	Hz
Rated operational voltage (Ue)	up to	690	690	690	690	V
Rated making capacity (440 V)	Conforming to IEC 60947	550	800	900	1000	A
Fuse protection against short-circuits ($U \leq 690\text{ V}$)	Without thermal overload relay	63	80	100	125	A

Properties	53.10.080, □□, ***	53.10.095, □□, ***	53.10.115, □□, ***	53.10.150, □□, ***	
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Rated operational current (Ie)	In AC-3, $\Theta \leq 60^\circ\text{C}$	80	95	115	150	A
	In AC-1, $\Theta \leq 60^\circ\text{C}$	125	125	200	200	A
Average impedance per pole	At Ith and 50 Hz	0.8	0.8	0.6	0.6	WΩ
Permissible short time rating	For 1 s	990	1100	1100	1400	A
No current flowing for preceding 15 minutes with $\Theta < 40^\circ\text{C}$	For 10 s	640	800	950	1200	A
	For 1 min	320	400	550	580	A
	For 10 min	135	135	250	250	A
Conventional thermal current (Ith)	$\Theta \leq 60^\circ\text{C}$	125	125	200	200	A
Rated breaking capacity (440 V)	Conforming to IEC 60947	1100	1100	1100	1400	A
Power dissipation per pole for the above operational currents	AC-3	5.1	7.2	7.9	13.5	W
	AC-1	12.5	12.5	24	24	W
Frequency limits	Of the operational current	25 to 400	25 to 400	25 to 400	25 to 400	Hz
Rated operational voltage (Ue)	up to	1000	1000	1000	1000	V
Rated making capacity (440 V)	Conforming to IEC 60947	1100	1100	1260	1660	A
Fuse protection against short-circuits ($U \leq 690\text{ V}$)	Without thermal overload relay	200	200	250	315	A

□□ Refer to page no 1 - 4 to choose the appropriate contacts.

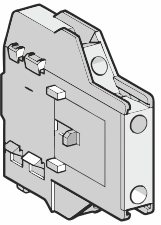
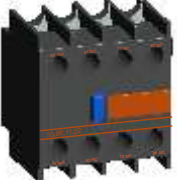
53 Series General Purpose Contactors

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Time Delay Auxiliary Contact Blocks For Connection By Screw Clamp Terminals

Power Connections	Model Number	Number of Contacts	Time Delay		Weight kg
			Type	Range	
 Timer	53.01.44.03	1NO-1NC	Off-delay	0.1 to 3 sec	0.060
	53.01.44.30	1NO-1NC	Off-delay	0.1 to 30 sec	0.060
	53.01.44.180	1NO-1NC	Off-delay	10 to 180 sec	0.060
	53.01.33.03	1NO-1NC	On-delay	0.1 to 3 sec	0.060
	53.01.33.30	1NO-1NC	On-delay	0.1 to 30 sec	0.060
	53.01.33.180	1NO-1NC	On-delay	10 to 180 sec	0.060

Instantaneous Auxiliary Contact Blocks For Connection By Screw Clamp Terminals

Clip-on Mounting	Model Number	Number of Contacts Per Block	Contacts 	Weight kg
 Side	53.00.22.11	2	1 NO-1NC	0.03
	53.00.22.20	2	2 NO	0.03
 Front	53.00.11.10	1	1NO	0.02
	53.00.11.01	1	1NC	0.02
	53.00.11.11	2	1NO-1NC	0.03
	53.00.11.20	2	2NO	0.03
	53.00.11.02	2	2NC	0.03
	53.00.11.22	4	2NO-2NC	0.05
	53.00.11.13	4	1NO-3NC	0.05
	53.00.11.31	4	3NO-1NC	0.05
	53.00.11.40	4	4NO	0.05
	53.00.11.04	4	4NC	0.05

Notes

- 53.01.33.03 and 53.01.44.03 with extended scale from 0.1 to 0.6 sec.
- 53.01.33.30 with switching time of 40 ms ± 15 ms between opening of the N/C contact and closing of the N/O contact.

53 Series General Purpose Contactors

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Auxiliary Contact Blocks Properties

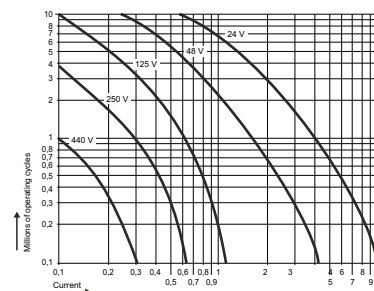
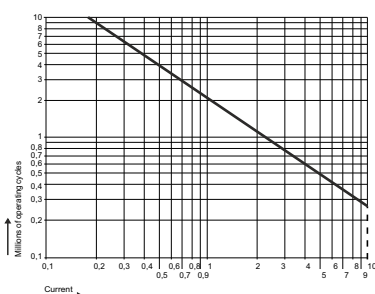
Properties		Auxiliary Contact Block Type			
		Front Auxiliary 53.00.11.□□	Timer 53.01.33.180 53.01.44.180	Side Auxiliary 53.00.22.11 53.00.22.20	
Degree of protection	Conforming to VDE 0106	IP 20	IP 20	IP 20	
Ambient air temperature around the device	Permissible for operation at U _c	- 40 to + 70	- 40 to + 70	- 40 to + 70	°C
	Storage	- 60 to + 80	- 60 to + 80	- 60 to + 80	°C
	Operation	- 5 to + 60	- 5 to + 60	- 5 to + 60	°C
Connection by cable	Phillips N° 2 and Ø 6 mm Flexible or solid cable with or without cable end	Min: 1 x 1; max: 2 x 2.5	Min: 1 x 1; max: 2 x 2.5	Min: 1 x 1; max: 2 x 2.5	mm ²
Spring terminal connections	Flexible or solid cable without cable end	Max: 2 x 2.5	Max: 2 x 2.5	Max: 2 x 2.5	mm ²
Maximum operating altitude	Without derating	3000	3000	3000	mm ²

Properties Of Instantaneous And Time Delay Contact

Number of contacts		1, 2 or 4	2	2	
Conventional thermal Current		10	10	10	V
Rated operational voltage	Up to	690	690	690	V
Rated insulation voltage		690	690	690	V
Frequency of the operational current		25 to 400	25 to 400	25 to 400	Hz
Short-circuit protection		10	10	10	A
Rated making capacity	I rms	AC: 140 DC: 250	AC: 140 DC: 250	AC: 140 DC: 250	A
Short-time rating	Permissible for	1 s	100	100	A
		500 ms	120	120	A
		100 ms	140	140	A
					A
Minimum switching capacity		U min	17	17	V
		I min	5	5	mA
Insulation resistance		> 10	> 10	> 10	MΩ
Overlap time	Guaranteed between N/C and N/O contacts	1.5	—	—	ms
Non-overlap time	Guaranteed between N/C and N/O contacts	1.5	1.5	1.5	ms
Time delay	Ambient air temperature for operation	—	- 40 to +70	—	°C
	Repeat accuracy	—	± 2 %	—	
	Drift up to 0.5 million operating cycles	—	+ 15 %	—	
	Drift depending on ambient air temperature	—	0.25 % per °C	—	
Mechanical durability	In millions of operating cycles	30	30	30	

Rated Operational Power of Contacts

AC Electrical durability (valid for up to 3600 operating cycles per hour on an inductive load)								DC Electrical durability (valid for up to 1200 operating cycles per hour on an inductive load)							
	24	48	115	230	400	440	600	V		24	48	125	250	440	V
1 million operating cycles	60	120	280	560	960	1050	1440	VA	1 million operating cycles	120	90	75	68	61	W
3 million operating cycles	16	32	80	160	280	300	420	VA	3 million operating cycles	70	50	38	33	28	W
10 million operating cycles	4	8	20	40	70	80	100	VA	10 million operating cycles	25	18	12	12	10	W



□□ Refer to page no 9 to choose the appropriate auxiliary contacts.

Timer

Time Properties	On - Delay		Off - Delay	
	53.01.33.03		53.01.44.03	
	53.01.33.30		53.01.44.30	
	53.01.33.180		53.01.44.180	

Degree of protection	Conforming to VDE 0106	IP 20	
Ambient air temperature around the device	Storage	– 40 to + 80	
	Operation	– 25 to + 55	°C
	For operation at U _c	– 25 to + 70	°C
Cabling	Phillips n° 2 and Ø 6 mm Flexible or solid conductor with or without cable end	Min: 1 x 1; max: 2 x 2.5	mm ²
Rated insulation voltage (U _i)	Conforming to IEC 60947-1	250	V

Control Circuit Properties

Rated control circuit voltage (U _c)	AC or DC : 24 to 250	V
Type of control	Mechanical contact	
Permissible variation	0.8 to 1.1 U _c	

Timing Properties

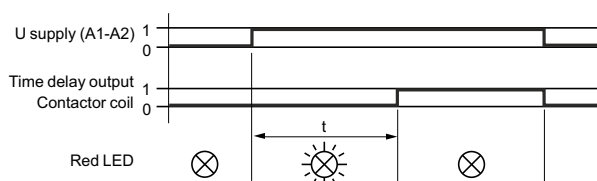
Repeat accuracy	0 to 40°C	± 3 % (10 ms minimum)	
Reset time	During time delay period	150	ms
	After time delay period	50	ms
Immunity to microbreaks	During time delay period	10	ms
	After time delay period	2	ms
Timing ranges		0.1 to 2; 1.5 to 30; 25 to 500	
Time delay signaling	By LED	Illuminates during time delay period	s

Switching Properties

Overvoltage protection	3 kV; 0.5 joule	
Maximum power dissipated	2	
Residual voltage	3.3	V
Leakage current	< 5	
Electrical durability	30 In millions of operating cycles	

Operational Diagram

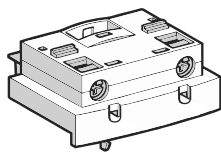
Electronic on-delay time
53.01.33.03



53 Series General Purpose Contactors

WERNER

Suppressor



Suppressor
53.03.00



Contactor
53.10.009.00.***



Contactor
53.20.095.00.***



Contactor
53.10.150.00.***

Suppressor Type

Protection Type	RC circuit		Bidirectional Peak Limiting Diode	
Suppressor Model Number	53.03.00		53.03.01	
Rated control circuit voltage (Uc)	24 to 415 V AC		24 to 440 V AC or DC	V
Natural RC frequency	24/48 V	400	–	Hz
	50/127 V	200	–	Hz
	110/240 V	100	–	Hz
	380/415 V	150	–	Hz
Maximum Peak Voltage	3 Uc		2 Uc	

Suppressor Type

Protection Type	Diode		Varistor	
Suppressor Model Number	53.03.02		53.03.03	
Rated control circuit voltage (Uc)	12 to 250 V DC		24 to 250 V AC or DC	V
Natural RC frequency	24/48 V	–	–	Hz
	50/127 V	–	–	Hz
	110/240 V	–	–	Hz
	380/415 V	–	–	Hz
Maximum Peak Voltage	Uc		2 Uc	

General Properties

Degree of protection	IP 20		
Ambient air temperature around the device	Storage	– 40 to + 80	°C
	Operation	– 25 to + 55	°C
	Permissible for operation at Uc	– 25 to + 70	°C

Mechanical Latch Blocks

Mechanical latch block type			53.10.009.00.***	53.10.038.00.***	53.10.080.00.***	
			53.10.012.00.***	53.10.040.00.***	53.10.095.00.***	
			53.10.018.00.***	53.10.050.00.***	53.10.115.00.***	
			53.10.025.00.***	53.10.065.00.***	53.10.150.00.***	
			53.10.032.00.***			
Power required	For unlatching	AC	25	25	VA	
		DC	30	30	W	
Rated insulation voltage			690	690	V	
Rated control circuit voltage	AC 50/60 Hz and DC		24 to 415	24 to 415	V	
On-load factor			10 %	10 %		
Maximum operating rate	In operating cycles/hour		1200	1200		
Mechanical durability at Uc	In millions of operating cycles		0.5	0.5		

□□ Refer to page no 1 - 4 to choose the appropriate contacts.

*** Refer to page no 4 to choose the appropriate coil voltage.

53 Series General Purpose Contactors

WERNER

Reversing Contactors

Appearance	Contactor Type	Model Number	Rated operational current	Standard power ratings of 3-phase motors 50-60 Hz in category AC-3							Weight
				220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V	1000 V	
				A	kW	kW	kW	kW	kW	kW	kg
	1NC	53.30.009.01.***	9	2.2	4	4	4	5.5	5.5	–	0.687
		53.30.012.01.***									
		53.30.018.01.***	12	3	5.5	5.5	5.5	7.5	7.5	–	0.697
	1NO	53.30.009.10.***									
		53.30.012.10.***									
		53.30.018.10.***									
	1NC	53.30.025.01.***	25	5.5	11	11	11	15	15	–	0.787
		53.30.032.01.***									
		53.30.038.01.***	32	7.5	15	15	15	18.5	18.5	–	0.797
	1NO	53.30.025.10.***									
		53.30.032.10.***									
		53.30.038.10.***									
	1NO-1NC	53.30.040.11.***	40	11	18.5	22	22	22	30	–	1.870
		53.30.050.11.***	50	15	22	25	30	30	33	–	1.880
		53.30.065.11.***	65	18.5	30	37	37	37	37	–	1.890
	1NO-1NC	53.30.080.11.***	80	22	37	45	45	5	45	–	3.200
		53.30.095.11.***	95	25	45	45	45	5	45	–	3.200
	No Contacts	53.30.115.00.***	115	30	55	59	59	75	80	65	6.350
		53.30.150.00.***	150	40	75	80	80	90	100	75	6.400

Note: DC Reversing for 80, 95, 115 and 150 A are underdevelopment.

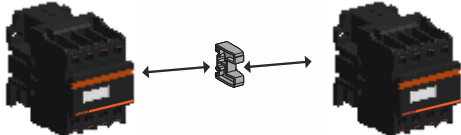
*** Refer to page no 4 to choose the appropriate coil voltage.

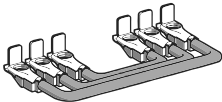
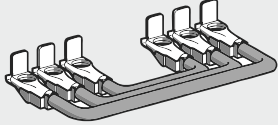
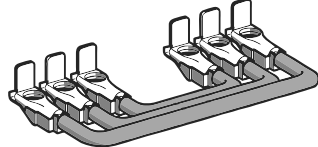
Replace 53.30. to 53.40. for DC coil option.

53 Series General Purpose Contactors

WERNER

Interlock

Description	Model Number	Applicable Contactors	Weight kg
	53.04.00	Including all types of <i>WERNER</i> 53 Contactors	0.045

Power Connections	Model Number	Wire thickness	Range	Coil Type	Applicable Contactors	Applicable Reversing	Weight kg
	53.05.01	2.5 mm ²	9 A to 38 A	AC	53.10.009.□□.*** to 53.10.038.□□.***	53.30.009.□□.*** to 53.30.038.□□.***	0.130
				DC	53.20.009.□□.*** to 53.20.038.□□.***	53.40.009.□□.*** to 53.40.038.□□.***	0.130
	53.05.02	4 mm ²	40 A to 95 A	AC	53.10.040.□□.*** to 53.10.095.□□.***	53.30.040.□□.*** to 53.30.095.□□.***	0.490
				DC	53.20.040.□□.*** to 53.20.095.□□.***	53.40.040.□□.*** to 53.40.095.□□.***	0.490
	53.05.03	6 mm ²	115 A to 150 A	AC	53.10.115.□□.*** to 53.10.150.□□.***	53.30.115.□□.*** to 53.30.150.□□.***	1.450
				DC	53.20.115.□□.*** to 53.20.150.□□.***	53.40.115.□□.*** to 53.40.150.□□.***	1.450

□□ Refer to page no 1 - 4 to choose the appropriate contacts.

*** Refer to page no 4 to choose the appropriate *coil voltage*.

53 Series General Purpose Contactors

WERNER

AC Coil

9 A to 18 A - 3 Poles

Power Connections	Coil Model No.	Current	Control circuit voltage UC	Inductance of closed circuit	Average resistance at 20 °C ± 10 %	Weight
50/60 Hz		A	V	H	Ω	kg
	53.02.01.10.024	9, 12, 18	24	0.22	5.37	0.07
	53.02.01.10.048	9, 12, 18	48	0.87	21.7	0.07
	53.02.01.10.110	9, 12, 18	110	4.6	124.1	0.07
	53.02.01.10.220	9, 12, 18	220	18	515.4	0.07
	53.02.01.10.240	9, 12, 18	240	22	562.3	0.07
	53.02.01.10.380	9, 12, 18	380	55	1551	0.07
	53.02.01.10.415	9, 12, 18	415	65	1694	0.07

25 A to 38 A - 3 Poles

	53.02.02.10.024	25, 32, 38	24	0.22	5.37	0.07
	53.02.02.10.048	25, 32, 38	48	0.87	21.7	0.07
	53.02.02.10.110	25, 32, 38	110	4.6	124.1	0.07
	53.02.02.10.220	25, 32, 38	220	18	515.4	0.07
	53.02.02.10.240	25, 32, 38	240	22	562.3	0.07
	53.02.02.10.380	25, 32, 38	380	55	1551	0.07
	53.02.02.10.415	25, 32, 38	415	65	1694	0.07

40 to 65 A - 3 Poles

	53.02.03.10.024	40,50,65	24	0.08	1.22	0.28
	53.02.03.10.048	40,50,65	48	0.32	5	0.28
	53.02.03.10.110	40,50,65	110	1.7	26	0.28
	53.02.03.10.220	40,50,65	220	6.7	102	0.28
	53.02.03.10.240	40,50,65	240	8.3	131	0.28
	53.02.03.10.380	40,50,65	380	20	310	0.28
	53.02.03.10.415	40,50,65	415	24	390	0.28

80 to 95 A - 3 Poles

	53.02.04.10.024	80,95	24	0.08	1.22	0.28
	53.02.04.10.048	80,95	48	0.32	5	0.28
	53.02.04.10.110	80,95	110	1.7	26	0.28
	53.02.04.10.220	80,95	220	6.7	102	0.28
	53.02.04.10.240	80,95	240	8.3	131	0.28
	53.02.04.10.380	80,95	380	20	310	0.28
	53.02.04.10.415	80,95	415	24	390	0.28

115 to 150 A - 3 Poles

	53.02.05.10.024	115, 150	24	3.03	147	0.29
	53.02.05.10.048	115, 150	48	24.19	1061	0.29
	53.02.05.10.110	115, 150	110	109.69	4377	0.29
	53.02.05.10.220	115, 150	220	210.72	9895	0.29
	53.02.05.10.240	115, 150	240	210.72	9895	0.29
	53.02.05.10.380	115, 150	380	482.42	21011	0.29
	53.02.05.10.415	115, 150	415	482.42	21011	0.29

Sealed (cos φ = 0.3) 50 Hz: 20 VA, 60 Hz: 22 VA.
Inrush (cos φ = 0.75) 50 Hz: 200 VA, 60 Hz: 220 VA.

53 Series General Purpose Contactors

WERNER

DC Coil

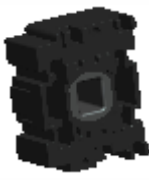
9 A to 18 A - 3 Poles

Power Connections 50/60 Hz	Coil Model No.	Current A	Control circuit voltage UC V	Inductance of closed circuit H	Average resistance at 20 °C ± 10 % Ω	Weight kg
	53.02.01.20.024	9, 12, 18	24	0.22	5.37	0.07
	53.02.01.20.048	9, 12, 18	48	0.87	21.7	0.07
	53.02.01.20.110	9, 12, 18	110	4.6	124.1	0.07

25 A to 38 A - 3 Poles

	53.02.02.20.024	25, 32, 38	24	0.22	5.37	0.07
	53.02.02.20.048	25, 32, 38	48	0.87	21.7	0.07
	53.02.02.20.110	25, 32, 38	110	4.6	124.1	0.07

40 to 65 A - 3 Poles

	53.02.03.20.024	40, 50, 65	24	1.89	27	0.68
	53.02.03.20.048	40, 50, 65	48	7.5	107	0.68
	53.02.03.20.110	40, 50, 65	110	39.5	564	0.68

80 to 95 A - 3 Poles

	53.02.04.20.024	80, 95	24	1.89	27	0.68
	53.02.04.20.048	80, 95	48	7.5	107	0.68
	53.02.04.20.110	80, 95	110	39.5	564	0.68

115 to 150 A - 3 Poles

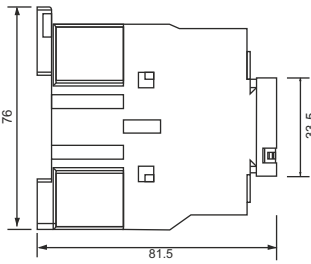
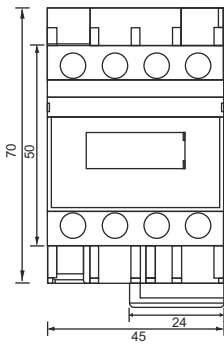
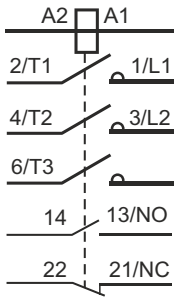
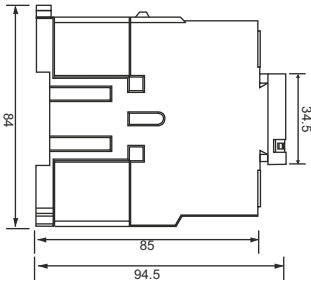
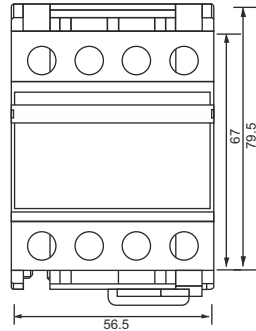
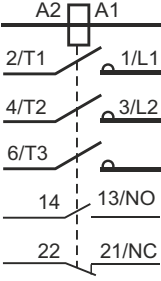
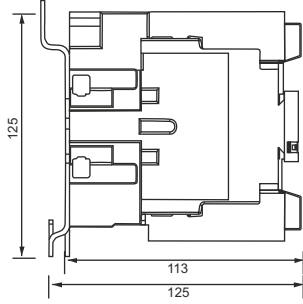
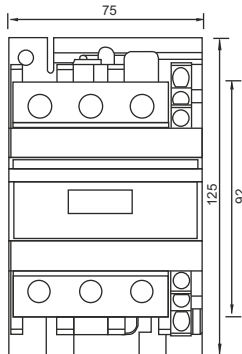
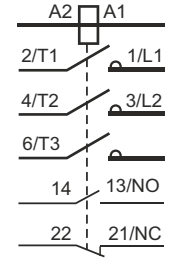
	53.02.05.20.024	115, 150	24	3.03	147	0.3
	53.02.05.20.048	115, 150	48	24.19	1061	0.3
	53.02.05.20.110	115, 150	110	109.69	4377	0.3

Sealed (cos φ = 0.3) 50 Hz: 20 VA, 60 Hz: 22 VA.
Inrush (cos φ = 0.75) 50 Hz: 200 VA, 60 Hz: 220 VA.

53 Series General Purpose Contactors

WERNER

Dimensions

Contactor Type	Side elevation	Front elevation	Schemes
 53.10.009.□□.*** 53.10.012.□□.*** 53.10.018.□□.***			
 53.10.025.□□.*** 53.10.032.□□.*** 53.10.038.□□.***			
 53.10.040.□□.*** 53.10.050.□□.*** 53.10.065.□□.***			

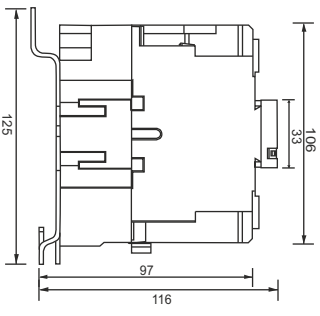
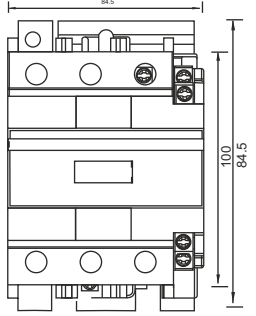
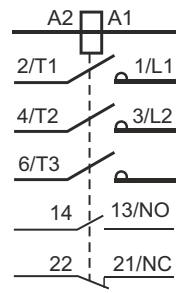
□□ Refer to page no 1 - 4 to choose the appropriate contacts.

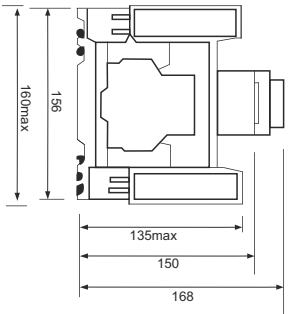
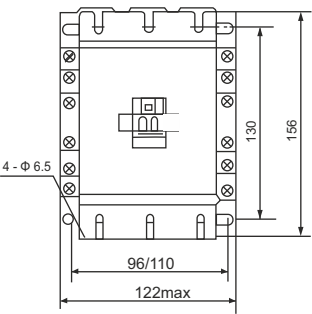
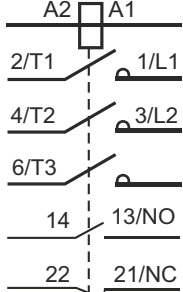
Note: The dimensions for AC, DC, AC reversing & DC reversing are similar as shown above. *** Refer to page no 4 to choose the appropriate coil voltage.

53 Series General Purpose Contactors

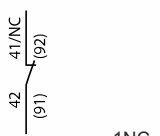
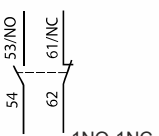
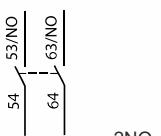
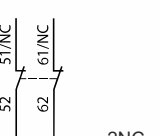
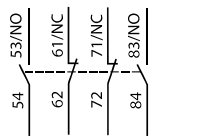
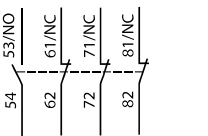
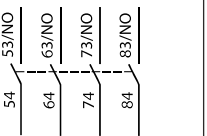
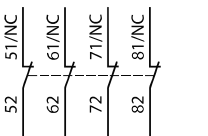
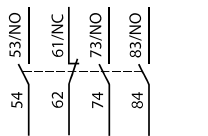
WERNER

Dimensions

Contactor Type	Side elevation	Front elevation	Schemes
 53.10.080.□□.*** 53.10.095.□□.***			

Contactor Type	Side elevation	Front elevation	Schemes
 53.10.115.□□.*** 53.10.150.□□.***			

Auxiliary Contacts

53.00.11.10 53.00.22.10  1NO	53.00.11.01 53.00.22.01  1NC	53.00.11.11 53.00.22.11  1NO-1NC	53.00.11.20 53.00.22.20  2NO	53.00.11.02 53.00.22.02  2NC
53.00.11.22 53.00.22.22  2NO-2NC	53.00.11.13 53.00.22.13  1NO-3NC	53.00.11.40 53.00.22.40  4NO	53.00.11.04 53.00.22.04  4NC	53.00.11.31 53.00.22.31  3NO-1NC

□□ Refer to page no 1 - 4 to choose the appropriate contacts.

*** Refer to page no 4 to choose the appropriate coil voltage.

53 Series General Purpose Contactors

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Terms And Conditions

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Application Considerations

WERNER shall not be responsible for conformity with any regulations, codes or standards that apply to use of the products. *WERNER* shall provide applicable third party certification documents identifying ratings and limitations of use that apply to the products in case of the customer's request.

Prevent use the products for an application involving risk to life or property. Be sure that the *WERNER*'s products are properly rated and installed for the overall system or equipment.

WERNER shall not be responsible for the user's programming of a programmable products.

Warranty

WERNER's warranty represents that the products are free from defects in materials and workmanship for a period of one year.

WERNER shall not be responsible for any special loss of profit, commercial loss, indirect or consequential damages relevant to products.

WERNER shall not be responsible for repair, warranty or any claims regarding the products unless *WERNER*'s Analysis confirm that the products were properly stored, installed, handled, maintained and not a result of accident, insufficient, abuse, misuse, natural disaster, improper installation excessive electrical supply, environmental conditions or abnormal mechanical.

Disclaimers

WERNER shall practice to change type/model numbers when published ratings or features are changed, however some specifications of the products may be changed without any notice.

When in doubt, please consult with your *WERNER* representative to confirm actual specifications of products.

WERNER shall change product specifications and accessories at any time based on improvements and other reasons.

The information in this catalog has been carefully checked and is believed to be accurate. However, *WERNER* take no responsibilities for clerical, typographical or proofreading errors.

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H.Q.

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