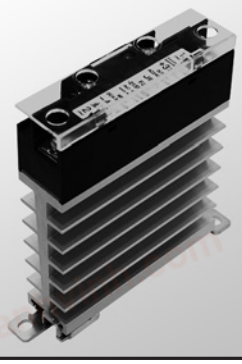
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AC Solid State Relay



F2 SERIES

Features

- Ultra Slim type power control SSR with heat-sink
- One-touch attachment on DIN-Rail
- Slide safety cover, LED installed
- Max. load current at 15A, 25A, 45A
- Built-in varistor (surge absorb element)
- UL, C-UL, TÜV standard approved

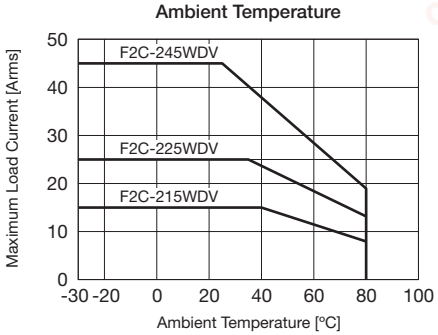
Type Information

F 2 C – 2 1 5 W D V

Zero-cross-circuit	Standard load voltage	Max. load current	Input voltage range
C : Built-in	2 : 100V, 200V	15 : 15A 25 : 25A 45 : 45A	WD : DC4.5 ~ 30V

Characteristics

Maximum Load Current VS Ambient Temperature

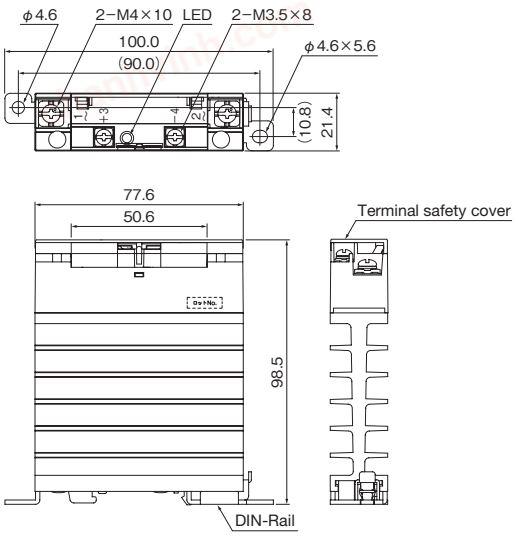


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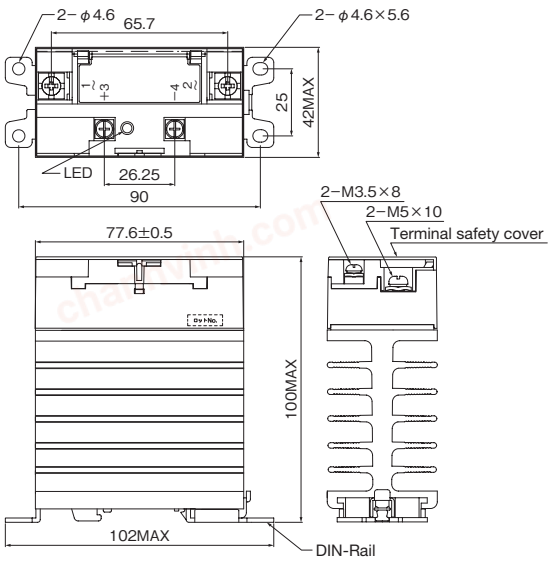
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Dimensions (mm)

F2C-215WDV, F2C-225WDV

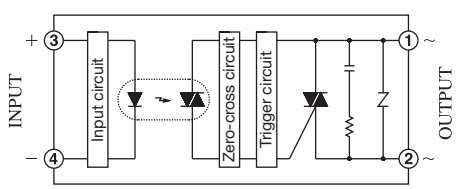


F2C-245WDV

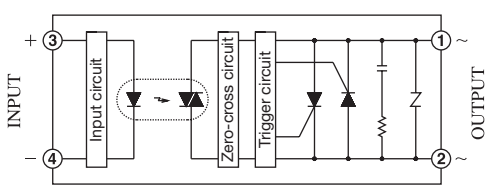


Equivalent Circuit

F2C-215WDV, F2C-225WDV

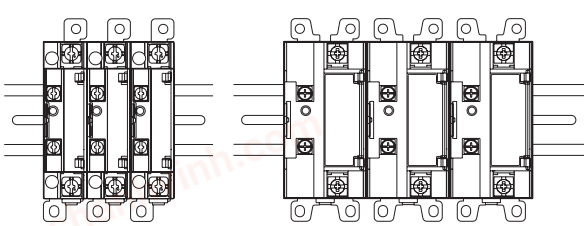


F2C-245WDV



Installation (by DIN-Rail or Screws)

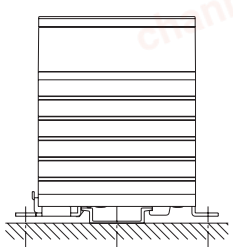
① Vertical Installation



※ Reduce the rating of load current more than 20% when F2C-series are installed more than three closely.

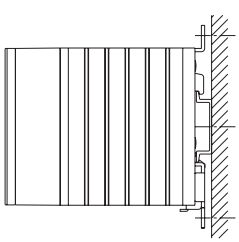
※ Reduce the rating of load current more than 30% when F2C-series are installed more than eight closely.

② Horizontal Installation



※ Reduce the rating of load current more than 10°C when F2C-series are installed horizontaly.

① Vertical Installation



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※ Please contact JEL SYSTEM for further information.

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■ Ratings

(Ta＝25℃)

	Item	Symbols	F2C-215WDV	Units
Output	Rated Load Voltage	—	240	V_{ACrms}
	Maximum Load Current	I_{OMAX}	15	A_{ACrms}
	Maximum Load Voltage	V_{OMAX}	280	V_{ACrms}
	Peak Repetitive Off State Voltage	V_{DRM}	423 (varistor voltage 470V)	V
	Peak 1 Cycle Surge Current	I_{SURGE}	150 (50Hz)	A
	Frequency	f	50, 60	Hz
Input	Maximum Input Voltage	V_{IMAX}	30	V_{DC}
	Maximum Input Current	I_{IMAX}	10	mA_{DC}
General	Dielectric Strength	V_{ISO}	2,500/1min. (Between input-output-case)	V_{ACrms}
	Isolation Resistance	R_{ISO}	10^8 and above DC500V (Between input-output-case)	Ω
	Operating Temperature Range	T_{OPR}	−30 ～ +80	℃
	Storage Temperature Range	T_{STG}	−35 ～ +100	℃

■ Electrical Characteristics

(Ta＝25℃)

	Item	Symbols	F2C-215WDV	Units
Output	Load Voltage Range	V_O	60～280	V_{ACrms}
	Off State Leakage Current	I_{LEK}	9.0 and below (V_O＝240V)	mA_{ACrm}
	On State Voltage Drop	V_{SAT}	1.6 and below (I_O＝15A)	V_{ACrms}
	Minimum Load Current	I_{OMIN}	100	mA
Input	Input Voltage Range	V_I	4.5～30	V_{DC}
	Operate Voltage	V_P	4.5 and below	V_{DC}
	Release Voltage	V_D	1.0 and above	V_{DC}
General	Operate Time	T_{ON}	1/2cycle＋1ms and below	
	Release Time	T_{OFF}	1/2cycle＋1ms and below	
	Capacitance	C_{IO}	100 and below	PF
	Zero Cross Turn On		Built In	
	Approved Standards		UL, C-UL, TUV	

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■ Ratings

(Ta＝25℃)

	Item	Symbols	F2C-225WDV	Units
Output	Rated Load Voltage	—	240	V_{ACrms}
	Maximum Load Current	I_{OMAX}	25	A_{ACrms}
	Maximum Load Voltage	V_{OMAX}	280	V_{ACrms}
	Peak Repetitive Off State Voltage	V_{DRM}	423 (varistor voltage 470V)	V
	Peak 1 Cycle Surge Current	I_{SURGE}	250 (50Hz)	A
	Frequency	f	50, 60	Hz
Input	Maximum Input Voltage	V_{IMAX}	30	V_{DC}
	Maximum Input Current	I_{IMAX}	10	mA_{DC}
General	Dielectric Strength	V_{ISO}	2,500/1min. (Between input-output-case)	V_{ACrms}
	Isolation Resistance	R_{ISO}	10^8 and above DC500V (Between input-output-case)	Ω
	Operating Temperature Range	T_{OPR}	−30 ～ +80	℃
	Storage Temperature Range	T_{STG}	−35 ～ +100	℃

■ Electrical Characteristics

(Ta＝25℃)

	Item	Symbols	F2C-225WDV	Units
Output	Load Voltage Range	V_O	60～280	V_{ACrms}
	Off State Leakage Current	I_{LEK}	9.0 and below (V_O＝240V)	mA_{ACrm}
	On State Voltage Drop	V_{SAT}	1.6 and below (I_O＝25A)	V_{ACrms}
	Minimum Load Current	I_{OMIN}	100	mA
Input	Input Voltage Range	V_I	4.5～30	V_{DC}
	Operate Voltage	V_P	4.5 and below	V_{DC}
	Release Voltage	V_D	1.0 and above	V_{DC}
General	Operate Time	T_{ON}	1/2cycle＋1ms and below	
	Release Time	T_{OFF}	1/2cycle＋1ms and below	
	Capacitance	C_{IO}	100 and below	PF
	Zero Cross Turn On		Built In	
	Approved Standards		UL, C-UL, TUV	

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■ Ratings

(Ta＝25℃)

	Item	Symbols	F2C-245WDV	Units
Output	Rated Load Voltage	—	240	V_{ACrms}
	Maximum Load Current	I_{OMAX}	45	A_{ACrms}
	Maximum Load Voltage	V_{OMAX}	280	V_{ACrms}
	Peak Repetitive Off State Voltage	V_{DRM}	423 (varistor voltage 470V)	V
	Peak 1 Cycle Surge Current	I_{SURGE}	450 (50Hz)	A
	Frequency	f	50, 60	Hz
Input	Maximum Input Voltage	V_{IMAX}	30	V_{DC}
	Maximum Input Current	I_{IMAX}	10	mA_{DC}
General	Dielectric Strength	V_{ISO}	2,500/1min. (Between input-output-case)	V_{ACrms}
	Isolation Resistance	R_{ISO}	10^8 and above DC500V (Between input-output-case)	Ω
	Operating Temperature Range	T_{OPR}	−30 ～ +80	℃
	Storage Temperature Range	T_{STG}	−35 ～ +100	℃

■ Electrical Characteristics

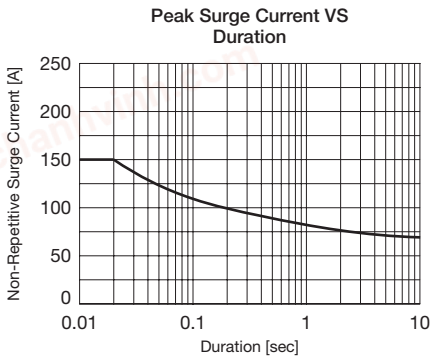
(Ta＝25℃)

	Item	Symbols	F2C-245WDV	Units
Output	Load Voltage Range	V_O	60～280	V_{ACrms}
	Off State Leakage Current	I_{LEK}	9.0 and below (V_O＝240V)	mA_{ACrm}
	On State Voltage Drop	V_{SAT}	1.6 and below (I_O＝45A)	V_{ACrms}
	Minimum Load Current	I_{OMIN}	500	mA
Input	Input Voltage Range	V_I	4.5～30	V_{DC}
	Operate Voltage	V_P	4.5 and below	V_{DC}
	Release Voltage	V_D	1.0 and above	V_{DC}
General	Operate Time	T_{ON}	1/2cycle＋1ms and below	
	Release Time	T_{OFF}	1/2cycle＋1ms and below	
	Capacitance	C_{IO}	100 and below	PF
	Zero Cross Turn On		Built In	
	Approved Standards		UL, C-UL, TUV	

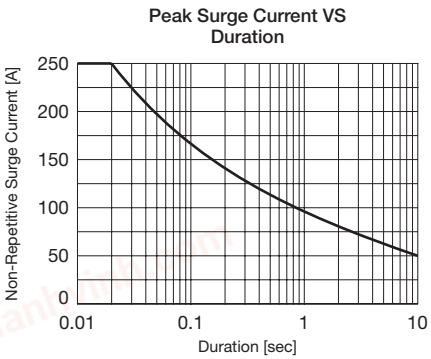
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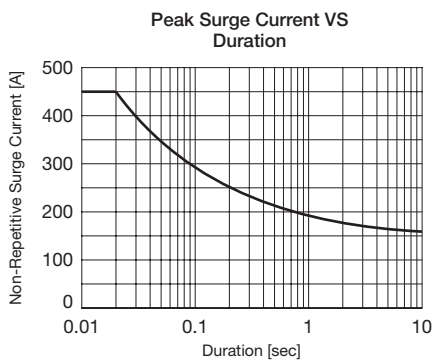
F2C-215WDV



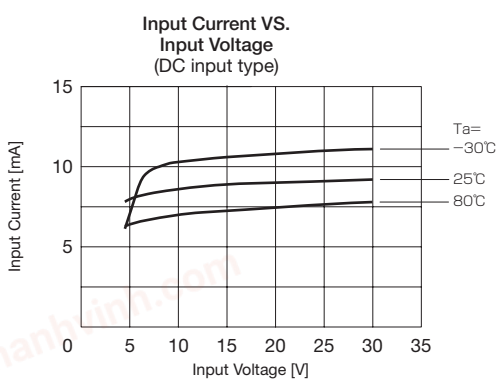
F2C-225WDV

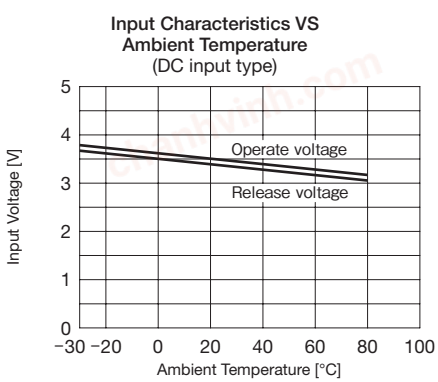


F2C-245WDV



F2C-215WDV, F2C-225WDV, F2C-245WDV





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