

Littelfuse offers Class J Fuses that can be used as a substitute for existing Class CF fuses. Our UL-Listed Class J Fuses provide greater versatility, are more widely available, and offer almost twice the ampere rating selection than Class CF fuses. They offer maximum protection in a compact size and are available in inductor and non-indicator versions.

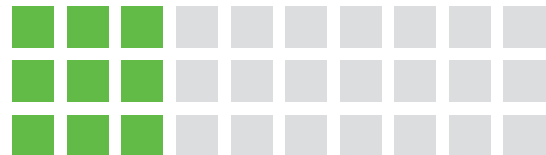
- JTD Series – UL Class J Time-delay Fuses
- JTD_ID Series – UL Class J Time-delay Fuses with Indication
- JLS Series – UL Class J Fast-acting Fuses

Specifications – Time-Delay Fuses

Series / Model	TCF / TCF_RN	JTD / JTD_ID
Manufacturer:	Bussmann	Littelfuse
Ampere Range:	6 - 400 A	8/10 - 600 A
Ac Voltage Rating:	600 V	600 V
Ac Interrupting Rating:	300,000 A (up to 100 A UL) 200,000 A (110 - 400 A UL)	300,000 A (Self-certified) 200,000 A (UL)
Dc Voltage Rating:	300 V	300 V (8/10 - 100 A) 500 V (110 - 600 A)
Dc Interrupting Rating:	100,000 A	20,000 A
Environmental:	RoHS 2011/65/EU	RoHS 2015/863/EU (JTD 225-600 A; JTD-R 35-60 A)
Agency Approvals:	UL Listed Class CF - E4273 CSA (053787_C_000) CE (up to 100 A)	UL Listed Class J (E81895) CSA (029862) CE (JTD 225-600 A; JTD-R 35-60 A)
Operating Temperature:	-40 °C to 80 °C (-40 °F to 176 °F)	-55 °C to 125 °C (-67 °F to 257 °F)
Datasheet Links:	TCF Series Datasheet	JTD Series Datasheet JTD with Indicator Series Datasheet

Electrical Specifications – Time-Delay Fuses

Ampere Rating	TCF / TCF_RN	JTD / JTD_ID
	Watts Loss At 100 % Rated Current	Watts Loss At 100 % Rated Current
30	4	4.3
60	6.2	6.4
100	9.5	7.5
200	19	18.4
400	35.2	40



Cross-Reference Guide – Time-Delay Fuses

Bussmann UL Class CF Fuse			Littelfuse UL Class J Fuse	
Non-indicating		Indicating	Non-indicating	Indicating
Time-Delay Fuse	TCF1RN	-	0JTD001.T	0JTD001.TXID
	TCF3RN	-	0JTD003.T	0JTD003.TXID
	TCF6RN	TCF6	0JTD006.T	0JTD006.TXID
	TCF10RN	TCF10	0JTD010.T	0JTD010.TXID
	TCF15RN	TCF15	0JTD015.T	0JTD015.TXID
	TCF17-½RN	TCF17-½	0JTD17.5T	0JTD17.5TXID
	TCF20RN	TCF20	0JTD020.T	0JTD020.TXID
	TCF25RN	TCF25	0JTD025.T	0JTD025.TXID
	TCF30RN	TCF30	0JTD030.T	0JTD030.TXID
	TCF35RN	TCF35	0JTD035.T	0JTD035.TXID
	TCF40RN	TCF40	0JTD040.T	0JTD040.TXID
	TCF45RN	TCF45	0JTD045.T	0JTD045.TXID
	TCF50RN	TCF50	0JTD050.T	0JTD050.TXID
	TCF60RN	TCF60	0JTD060.T	0JTD060.TXID
	TCF70RN	TCF70	0JTD070.V	0JTD070.VXID
	TCF80RN	TCF80	0JTD080.V	0JTD080.VXID
	TCF90RN	TCF90	0JTD090.V	0JTD090.VXID
	TCF100RN	TCF100	0JTD100.V	0JTD100.VXID
	TCF110RN	TCF110	0JTD110.X	0JTD110.XXID
	TCF125RN	TCF125	0JTD125.X	0JTD125.XXID
	TCF150RN	TCF150	0JTD150.X	0JTD150.XXID
	TCF175RN	TCF175	0JTD175.X	0JTD175.XXID
	TCF200RN	TCF200	0JTD200.X	0JTD200.XXID
	TCF225RN	TCF225	0JTD225.X	0JTD225.XXID
	TCF250RN	TCF250	0JTD250.X	0JTD250.XXID
	TCF300RN	TCF300	0JTD300.X	0JTD300.XXID
	TCF350RN	TCF350	0JTD350.X	0JTD350.XXID
	TCF400RN	TCF400	0JTD400.X	0JTD400.XXID

Specifications – Fast-Acting Fuses

Series / Model	FCF_RN	JLS
Manufacturer:	Bussmann	Littelfuse
Ampere Range:	1 - 100 A	1 - 600 A
Ac Voltage Rating:	600 V	600 V
Ac Interrupting Rating:	300,000 A (up to 60 A UL) 200,000 A (70 - 100 A UL)	200,000 A (UL)
Dc Voltage Rating:	600 V	N/A
Dc Interrupting Rating:	50,000 A	N/A
Environmental:	RoHS 2011/65/EU	RoHS 2015/863/EU
Agency Approvals:	UL Listed Class CF (E4273) CSA (053787_C_000) CE	UL Listed Class J (E81895) CSA (LR29862) CE
Operating Temperature:	-40 °C to 80 °C (-40 °F to 176 °F)	-55 °C to 125 °C (-67 °F to 257 °F)
Datasheet Links:	FCF_RN Series Datasheet	JLS Series Datasheet



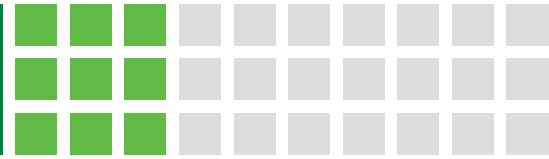
Cross-Reference Guide – Fast-Acting Fuses

Bussmann UL Class CF Fuse			Littelfuse UL Class J Fuse	
Non-indicating		Indicating	Non-indicating	Indicating
Fast-acting Fuse	FCF1RN	-	OJLS001.T	-
	FCF3RN	-	OJLS003.T	-
	FCF6RN	-	OJLS006.T	-
	FCF10RN	-	OJLS010.T	-
	FCF15RN	-	OJLS015.T	-
	FCF20RN	-	OJLS020.T	-
	FCF25RN	-	OJLS025.T	-
	FCF30RN	-	OJLS030.T	-
	FCF35RN	-	OJLS035.T	-
	FCF40RN	-	OJLS040.T	-
	FCF45RN	-	OJLS045.T	-
	FCF50RN	-	OJLS050.T	-
	FCF60RN	-	OJLS060.T	-
	FCF70RN	-	OJLS070.V	-
	FCF80RN	-	OJLS080.V	-
	FCF90RN	-	OJLS090.V	-
	FCF100RN	-	OJLS100.V	-

Cross-Reference Guide – Fuse Holder

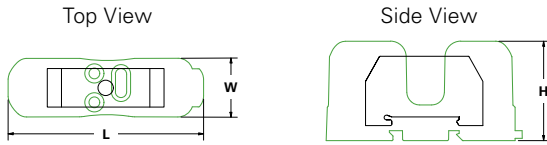
Bussmann UL Class CF Fuse Holder		Littelfuse UL Class J Fuse Holder	
-		Open Style	
Fuse Block	TCFH30N	LFJ600301CID*	
	TCFH60N	LFJ600601CID*	
	TCFH100N	LFJ601001CID*	
	TCFH200N	LFJ602001C	
	TCFH400N	LFJ604001C	

*Optional fuse block covers sold separately



Fuse Holder Only Dimensions* - Millimeters (Inches)

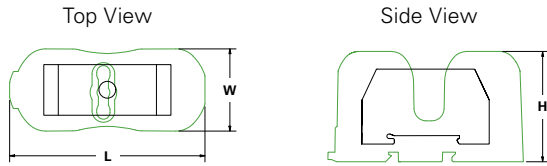
30 A



Littelfuse LFJ600301CID Fuse Holder Overlay on Bussmann TCFH30N Fuse Holder

PRODUCT	LENGTH (L)	WIDTH (W)	HEIGHT (H)
Littelfuse	97.7 (3.9)	29.2 (1.1)	49.6 (1.95)
Bussmann	58.5 (2.3)	19.3 (0.76)	34.5 (1.4)

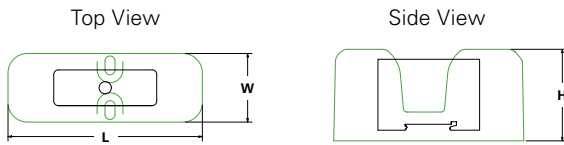
60 A



Littelfuse LFJ600601CID Fuse Holder Overlay on Bussmann TCFH60N Fuse Holder

PRODUCT	LENGTH (L)	WIDTH (W)	HEIGHT (H)
Littelfuse	101.0 (4.0)	42.5 (1.67)	57.0 (2.2)
Bussmann	65.7 (2.6)	26.2 (1.0)	41.0 (1.6)

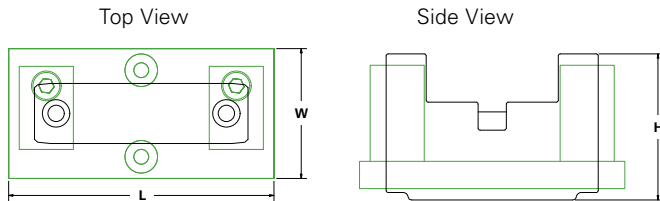
100 A



Littelfuse LFJ601001CID Fuse Holder Overlay on Bussmann TCFH100N Fuse Holder

PRODUCT	LENGTH (L)	WIDTH (W)	HEIGHT (H)
Littelfuse	138.2 (5.4)	48.8 (1.9)	66.5 (2.6)
Bussmann	73.2 (2.9)	27.0 (1.05)	51.6 (2.0)

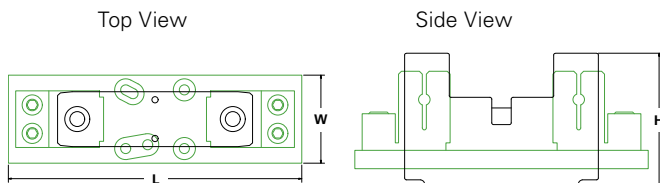
200 A



Littelfuse LFJ602001C Fuse Holder Overlay on Bussmann TCFH200N Fuse Holder

PRODUCT	LENGTH (L)	WIDTH (W)	HEIGHT (H)
Littelfuse	155.7 (6.1)	76.2 (3.0)	72.4 (2.9)
Bussmann	124.5 (4.9)	35.3 (1.4)	87.6 (3.4)

400 A



Littelfuse LFJ604001C Fuse Holder Overlay on Bussmann TCFH400N Fuse Holder

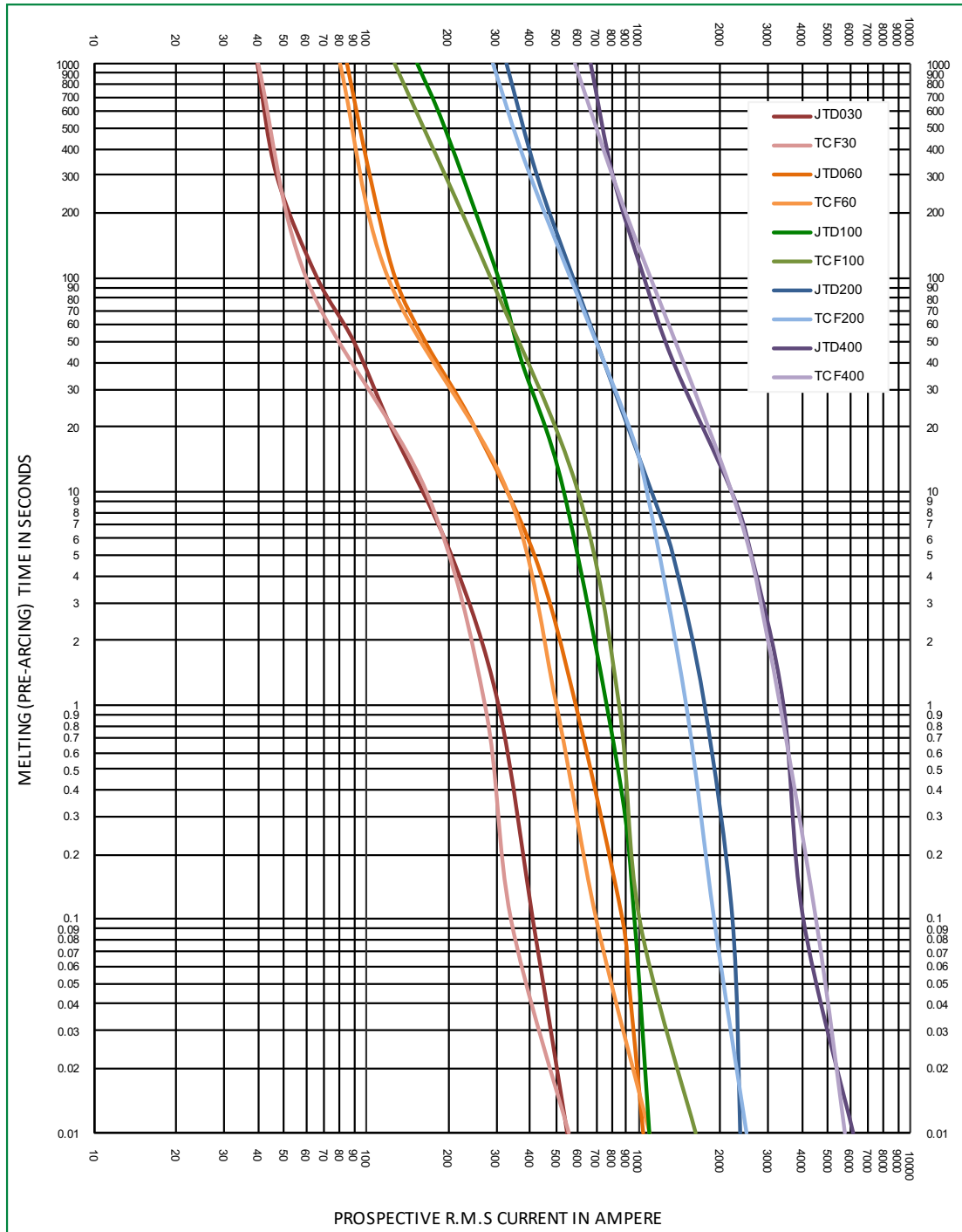
PRODUCT	LENGTH (L)	WIDTH (W)	HEIGHT (H)
Littelfuse	254.0 (10.0)	76.2 (3.0)	84.4 (3.32)
Bussmann	168.8 (6.6)	43.66 (1.7)	99.6 (3.9)

— Littelfuse — Bussmann

*For reference only, actual dimensions may vary and do not include 'fuse in holder' height dimensions

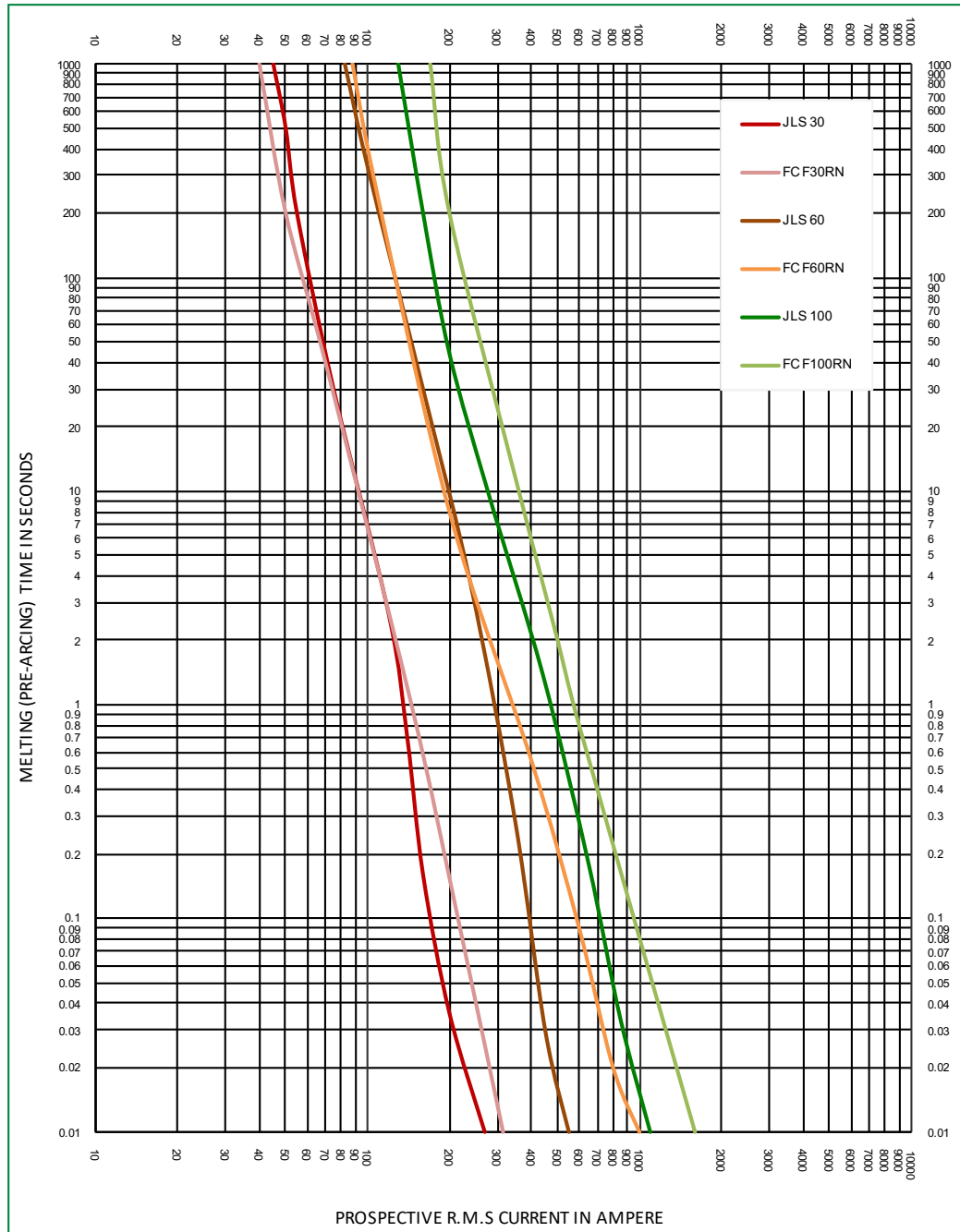


Time Current Curve – Time-Delay Fuses





Time Current Curve – Fast-Acting Fuses



For more information or selection assistance, please contact:

Technical Support:

Tel: +1-800-TEC-FUSE (+1-800-832-3873)

E-mail: Techline@Littelfuse.com

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