



• Intermittent operation <i>Service Intermittent</i>	
• Main contact <i>Contact principal</i>	1 PST (DM-DB)
• Auxiliary contact <i>Contacts auxiliaires</i>	Up to 2 PDT
• Coil supply <i>Service Intermittent</i>	Direct current <i>Courant continu</i>
• Related standard <i>Normes de référence</i>	MIL-R-6106J

PRINCIPAL TECHNICAL CHARACTERISTICS CARACTERISTIQUES TECHNIQUES PRINCIPALES

• Weight <i>Masse</i>	275 g (±5%) <i>275 g (±5%)</i>
• Designed for engine start operation. See curve page 5 <i>Conçu pour démarrage moteur. Voir courbe page 5</i>	
• Contact rated at <i>Prévu pour commuter</i>	400 Amps / 28 Vdc <i>400 A / 28 Vcc</i>
• Overall size <i>Dimension hors tout</i>	94 x 35.5 x 56.8 mm <i>94 x 35.5 x 56.8 mm</i>
• Metal body, thermoplastic cover for dust protection <i>Corps métallique, capots thermoplastiques étanches à la poussière</i>	
• Special models available upon request <i>Modèles spécifiques sur demande</i>	

ELECTRICAL CONTACT CHARACTERISTICS CARACTERISTIQUES ELECTRIQUES DES CONTACTS

Contact rating per load type, main contact <i>Contact principal par type de charge</i>	28 Vdc nominal / 32 Vdc max
Start curve type 1 as per page 4 / Courbe de départ type 1 selon la page 4 10 000 cycles Extreme + 10 000 cycles Standard	1 200 A / 800 A
Start curve type 2 as per page 4 / Courbe de départ type 2 selon la page 4 4 000 cycles	2 000 A
Contact rating per load type, auxiliary contact <i>Contact auxiliaire par type de charge</i>	28 Vdc
Resistive / Résistif	5 A
Inductive / Inductif [1]	2 A
Low level / Bas niveau	2 mA

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The technical information provided by Leach International Europe is to be used as a guide only, and is not meant for publication or as documentation for altering any existing specification. Dimensions are in millimeters unless otherwise specified. Rev. 03/2025.

COILS CHARACTERISTICS (Vdc)

CARACTERISTIQUES DES BOBINES (Vcc)

Code	N
Nominal voltage Tension nominale	28 V
Maximum voltage Tension maximum	32 V
Maximum pickup voltage Tension max. d'enclenchement assuré	13 V at +20°C
Dropout voltage Tension de déclenchement	0.7 ≤ U ≤ 3 V at +20°C 0.7 ≤ U ≤ 4.5 V at +70°C
Inrush current at 25°C Courant d'appel à 25°C	3 A max at 28 V
Nominal transient suppressor Ecrêtage des bobines	- 46 V min

GENERAL CHARACTERISTICS

CARACTERISTIQUES GENERALES

Temperature range Gamme de température	-55°C to +85°C
Mechanical life Durée de vie mécanique	100,000 cycles
Dielectric strength at sea level (main contact) Rigidité diélectrique au niveau de la mer (contact principal)	1500 Vrms
Insulation resistance at 500 Vdc Résistance d'isolement sous 500 Vcc	100 MΩ min.
Vibrations Vibrations	9G
Shocks Chocs	30G / 11ms
Maximum contact opening time under vibrations and shocks Durée maximum d'ouverture des contacts sous l'influence des vibrations et chocs	10 μs
Maximum operate time at 28 Vdc Temps d'enclenchement sous 28 Vcc	30 ms max at +25°C
Maximum dropout time at 28 Vdc Temps de déclenchement sous 28 Vcc	20 ms max at +25°C
Power contact voltage drop Chute de tension, contact principal	
- Initial voltage drop chute de tension initiale	120 mV max
- End of life voltage drop chute de tension finale	175 mV max
Auxiliary contacts Contacts auxiliaires	
- Contact voltage drop initial at 100mA Chute de tension de contact initiale sous 100mA	4 mV
- Contact voltage drop end of life at 100mA Chute de tension de contact finale sous 100mA	4 mV
- Contact resistance initial (at low level) Résistance de contact initiale (bas niveau)	< 0.09 Ω
- Contact resistance end of life (at low level) Résistance de contact finale (bas niveau)	< 0.19 Ω
- Minimum current Courant minimum [3]	2 mA min
Mouting torque / Couple de serrage	See page 5 / Voir page 5

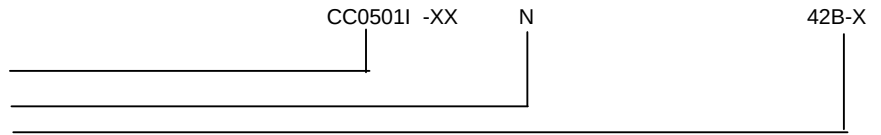
REFERENCE SYSTEM SYSTEME DE REFERENCES

Basic series designation / Référence de base

1. Coil voltage / Code bobine (N)

2. Features (see existing products list)

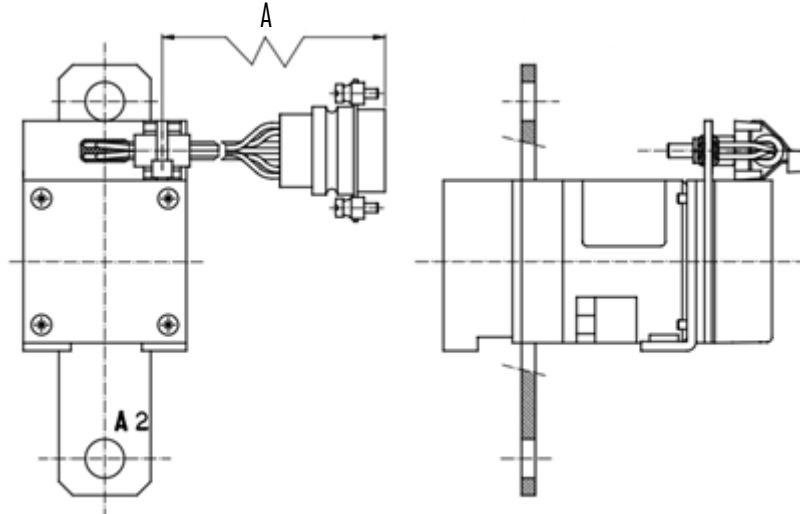
/ Caractéristiques (voir la liste des produits existants)

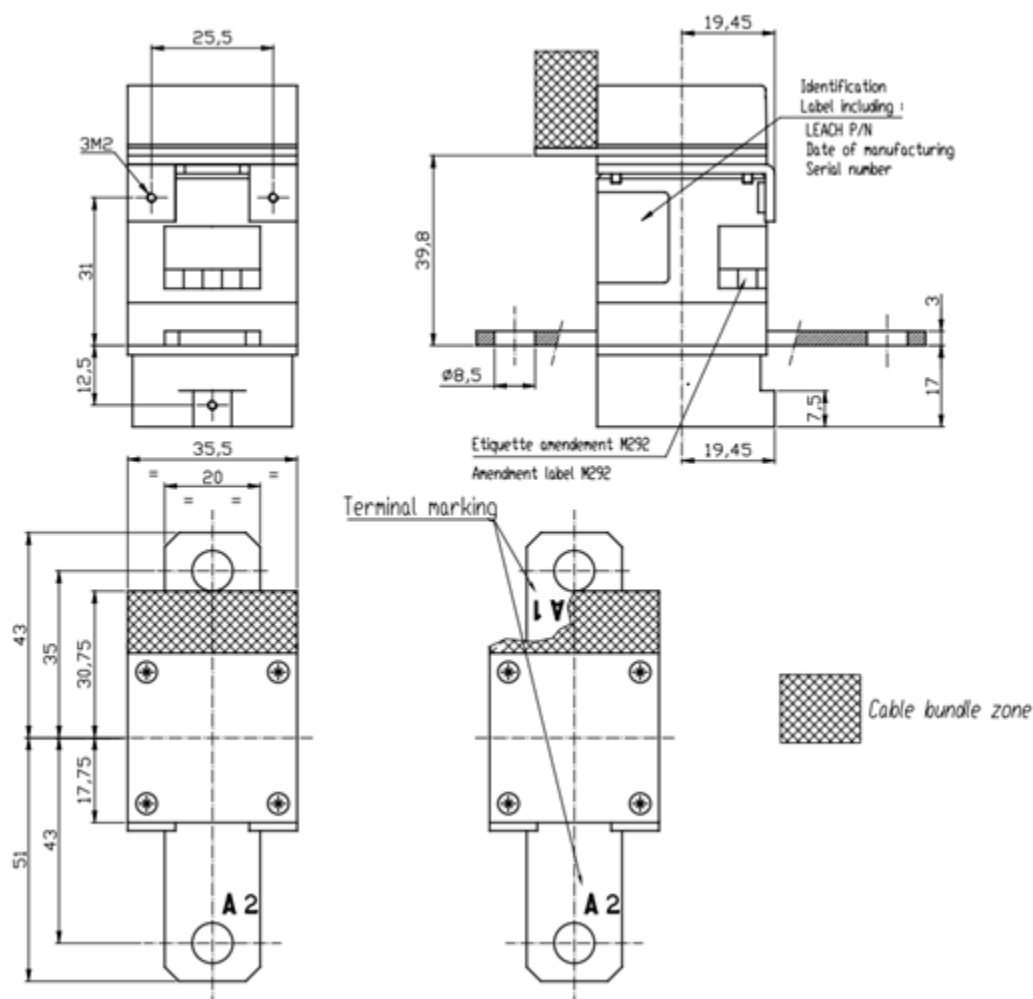


MOUNTING STYLES TYPE DE CONFIGURATION

Dimensions are in mm
 General tolerances, ± 0.25 mm

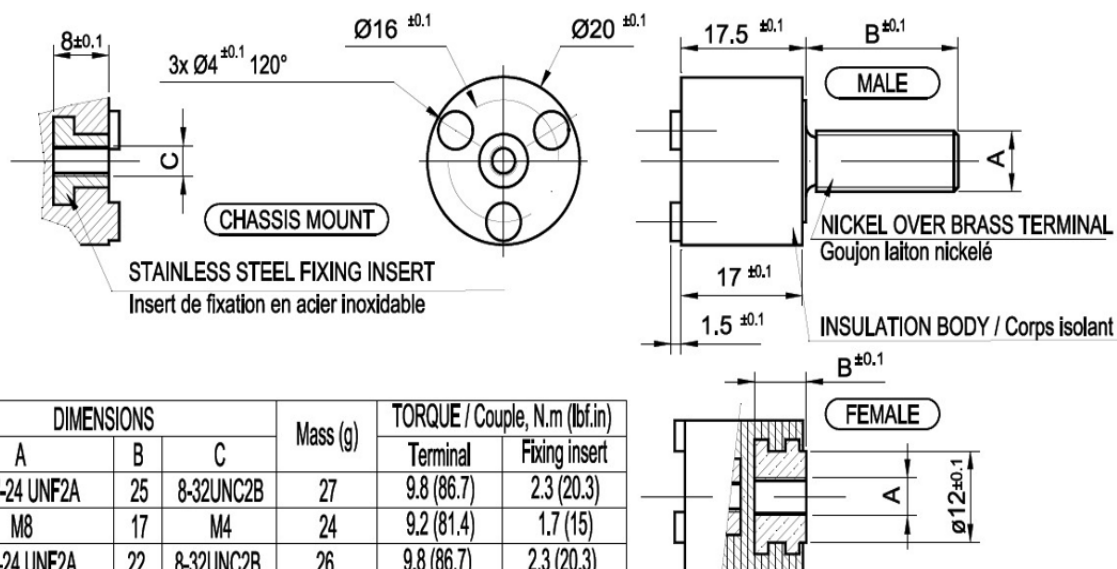
Mounting dimensions / Dimensions de fixations		
	A	Mounting direction
CC0501I-XXN42B	360	Right hand side, as shown below
CC0501I-XXN42B-1	360	Left hand side, opposite to below
CC0501I-XXN42B-2	390	Upward, with no fixing on the PCB





TERMINAL TYPE [2]

ACCESSOIRES DE FIXATIONS

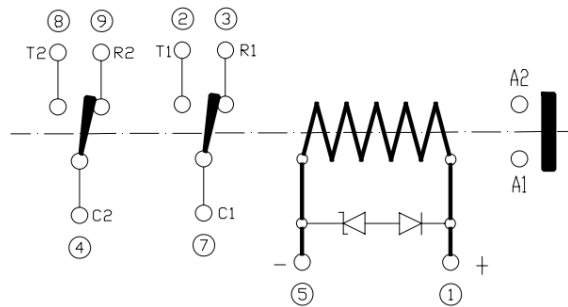
TERMINAL / Bornes

TERMINAL / Borne		DIMENSIONS			Mass (g)	TORQUE / Couple, N.m (lbf.in)	
Leach P/N	TYPE	A	B	C		Terminal	Fixing insert
72VB41-052	MALE	5/16"-24 UNF2A	25	8-32UNC2B	27	9.8 (86.7)	2.3 (20.3)
72VB41-04	MALE	M8	17	M4	24	9.2 (81.4)	1.7 (15)
72VB41-032	MALE	5/16"-24 UNF2A	22	8-32UNC2B	26	9.8 (86.7)	2.3 (20.3)
72VB41-02	MALE	M6	15	M4	21	3.9 (34.5)	1.7 (15)
72VB41-01	FEMALE	M5	7.5	M4	17	2.5 (22)	1.7 (15)
72VB41-062	FEMALE	10-32 UNF2B	7.5	8-32UNC2B	17	2.6 (23)	2.3 (20.3)

 **THIRD ANGLE PROJECTION**
projection du 3ème dièdre

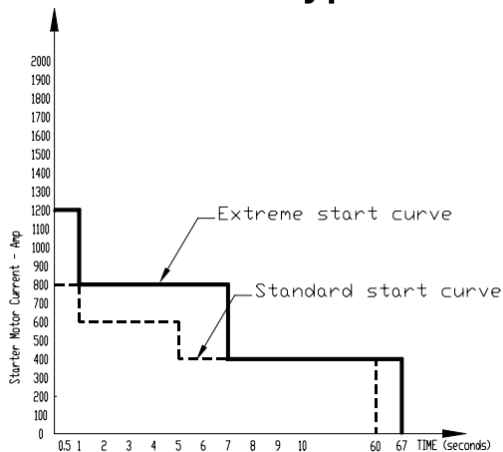
ALL DIMENSIONS IN mm / Dimensions en mm
(UNLESS OTHERWISE SPECIFIED / sauf indication contraire)

SCHEMATIC DIAGRAM SCHEMAS

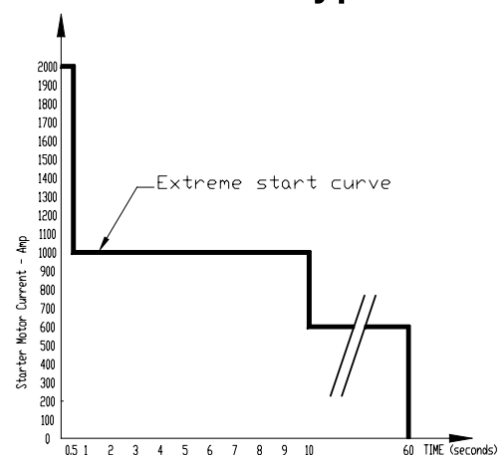


STARTING CURVES COURBES DE DEMARRAGE

Start curve type 1



Start curve type 2



COIL AND AUXILIARY CONTACTS CONNECTOR CONNECTEUR DE CONTACTS AUXILIAIRES ET BOBINES

Code	B
Connection style / Type de connexion	Fixed
Brand or type / Fabricant ou type	Sub-D
Model / Modèle	M24308/4-1F
Mating Connector / Connecteur compatible	M24308/2-1F
Contacts plating / Protection des broches	Gold plated
Torque for screws ($\pm 10\%$) / Couple de serrage pour les vis ($\pm 10\%$)	0.4 N.m (3.54 lbs.in)

PRODUCTS LIST

LISTE DE PRODUITS

	Connector Connecteur	Auxiliary contacts Contacts auxiliaires	Bobine style Type de bobine	Poids Masse
CC0501I-XXN42B	360 mm	2 PDT	28Vdc + coil suppression	275 g $\pm 5\%$
CC0501I-XXN42B-1	360 mm	2 PDT	28Vdc + coil suppression	275 g $\pm 5\%$
CC0501I-XXN42B-2	390 mm	2 PDT	28Vdc + coil suppression	275 g $\pm 5\%$

NOTES

REMARQUES

1. L/R 5 ms, life 10 000 cycles.

L/R 5 ms, 10 000 cycles

2. Other configurations may be possible. Please contact factory.

D'autres configurations peuvent être possibles : Nous consulter.

3. The use of the auxiliary contacts at low level current is possible only if they have never been previously used at high current level.

L'utilisation des contacts auxiliaires en bas niveau n'est possible que s'ils n'ont jamais été utilisés auparavant en haut niveau.