



Lamp load contactor, 24 V 50 Hz, 220 V 230 V: 12 A, Contactors for lighting systems

Part no. **DILL12(24V50HZ)**
 Catalog No. **104401**
 Alternate Catalog No. **XTCT012C00U**
 EL-Nummer (Norway) **4134238**

Delivery program

| Product range | | | | DILL Lighting contactors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Application | | | | Contactors for lighting systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Utilization category | | | | AC-1: Non-inductive or slightly inductive loads, resistance furnaces | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated operational current | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-5a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 220 V 230 V | I_e | A | | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 380 V 400 V | I_e | A | | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-5b | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 220 V 230 V | I_e | A | | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 380 V 400 V | I_e | A | | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conventional free air thermal current, 3 pole, 50 - 60 Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Open | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| at 40 °C | $I_{th} = I_e$ | A | | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact sequence | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Actuating voltage | | | | 24 V 50 Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note | | | | <p>Switchgear for lighting systems</p> <table border="1"> <thead> <tr> <th></th> <th>DIL</th> <th>L12</th> <th>L18</th> <th>L20</th> <th>M7</th> <th>M9</th> <th>M12</th> <th>M17</th> <th>M25</th> <th>M32</th> <th>M40</th> <th>M50</th> </tr> </thead> <tbody> <tr> <td>Permissible compensation capacitance</td> <td>70</td> <td>470</td> <td>470</td> <td>47</td> <td>80</td> <td>100</td> <td>220</td> <td>330</td> <td>470</td> <td>470</td> <td>500</td> <td></td> </tr> <tr> <td>Filament lamp</td> <td>14</td> <td>21</td> <td>27</td> <td>6</td> <td>7.5</td> <td>10</td> <td>14</td> <td>21</td> <td>27</td> <td>33</td> <td>42</td> <td></td> </tr> <tr> <td>Mercury blended lamps</td> <td>12</td> <td>16</td> <td>23</td> <td>5</td> <td>6.5</td> <td>8.5</td> <td>12</td> <td>16</td> <td>23</td> <td>30</td> <td>38</td> <td></td> </tr> <tr> <td>Fluorescent lamps, conventional</td> <td>20</td> <td>26</td> <td>35</td> <td>9</td> <td>10</td> <td>15</td> <td>20</td> <td>26</td> <td>35</td> <td>41</td> <td>45</td> <td></td> </tr> <tr> <td>- reactor</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>- starter</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>- connection</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Fluorescent lamps, conventional</td> <td>20</td> <td>26</td> <td>35</td> <td>5.5</td> <td>8</td> <td>13</td> <td>15</td> <td>22.5</td> <td>29</td> <td>36</td> <td>47</td> <td></td> </tr> <tr> <td>- reactor</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>- starter</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>- connection</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Fluorescent lamps, duo circuit (series compensated)</td> <td>12</td> <td>18</td> <td>20</td> <td>5</td> <td>6.5</td> <td>8.5</td> <td>12</td> <td>17.5</td> <td>22.5</td> <td>28</td> <td>35</td> <td></td> </tr> <tr> <td>electrical upstream devices and</td> <td>12</td> <td>18</td> <td>20</td> <td>3.5</td> <td>6</td> <td>10</td> <td>12</td> <td>17.5</td> <td>20</td> <td>25</td> <td>30</td> <td></td> </tr> </tbody> </table> | | DIL | L12 | L18 | L20 | M7 | M9 | M12 | M17 | M25 | M32 | M40 | M50 | Permissible compensation capacitance | 70 | 470 | 470 | 47 | 80 | 100 | 220 | 330 | 470 | 470 | 500 | | Filament lamp | 14 | 21 | 27 | 6 | 7.5 | 10 | 14 | 21 | 27 | 33 | 42 | | Mercury blended lamps | 12 | 16 | 23 | 5 | 6.5 | 8.5 | 12 | 16 | 23 | 30 | 38 | | Fluorescent lamps, conventional | 20 | 26 | 35 | 9 | 10 | 15 | 20 | 26 | 35 | 41 | 45 | | - reactor | | | | | | | | | | | | | - starter | | | | | | | | | | | | | - connection | | | | | | | | | | | | | Fluorescent lamps, conventional | 20 | 26 | 35 | 5.5 | 8 | 13 | 15 | 22.5 | 29 | 36 | 47 | | - reactor | | | | | | | | | | | | | - starter | | | | | | | | | | | | | - connection | | | | | | | | | | | | | Fluorescent lamps, duo circuit (series compensated) | 12 | 18 | 20 | 5 | 6.5 | 8.5 | 12 | 17.5 | 22.5 | 28 | 35 | | electrical upstream devices and | 12 | 18 | 20 | 3.5 | 6 | 10 | 12 | 17.5 | 20 | 25 | 30 | |
| | DIL | L12 | L18 | L20 | M7 | M9 | M12 | M17 | M25 | M32 | M40 | M50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Permissible compensation capacitance | 70 | 470 | 470 | 47 | 80 | 100 | 220 | 330 | 470 | 470 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Filament lamp | 14 | 21 | 27 | 6 | 7.5 | 10 | 14 | 21 | 27 | 33 | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury blended lamps | 12 | 16 | 23 | 5 | 6.5 | 8.5 | 12 | 16 | 23 | 30 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fluorescent lamps, conventional | 20 | 26 | 35 | 9 | 10 | 15 | 20 | 26 | 35 | 41 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - reactor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - starter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - connection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fluorescent lamps, conventional | 20 | 26 | 35 | 5.5 | 8 | 13 | 15 | 22.5 | 29 | 36 | 47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - reactor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - starter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - connection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fluorescent lamps, duo circuit (series compensated) | 12 | 18 | 20 | 5 | 6.5 | 8.5 | 12 | 17.5 | 22.5 | 28 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| electrical upstream devices and | 12 | 18 | 20 | 3.5 | 6 | 10 | 12 | 17.5 | 20 | 25 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

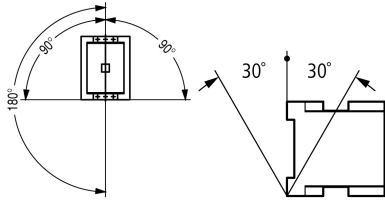
| | Switchgear for lighting systems | | | | | | | | | | | | |
|---|---------------------------------|-----|------|------|-----|------|------|------|------|------|------|------|-------|
| | LED lamps | | | | | | | | | | | | |
| High-le [A] | 12 | 18 | 20 | 3.5 | 6 | 10 | 12 | 17.5 | 20 | 25 | 30 | | |
| pressure mercury-arc lamps | | | | | | | | | | | | | |
| Meta-le [A] | 12 | 18 | 20 | 3.5 | 6 | 10 | 12 | 17.5 | 20 | 25 | 30 | | |
| halide lamps | | | | | | | | | | | | | |
| Low-le [A] | 7.5 | 10 | 12 | 3 | 4 | 6 | 7.5 | 10 | 12 | 15 | 22 | | |
| pressure sodium lamps | | | | | | | | | | | | | |
| | | DIL | M65 | M80 | M95 | M115 | M150 | M185 | M225 | M250 | M300 | M400 | M500A |
| Permissible compensation capacitance | 500 | 550 | 620 | 830 | 970 | 2055 | 2300 | 2600 | 3000 | 3250 | 3500 | | |
| Filament [A] | 55 | 67 | 79 | 95 | 125 | 153 | 187 | 208 | 349 | 332 | 415 | | |
| lamp | | | | | | | | | | | | | |
| Mercury [A] | 45 | 65 | 67 | 80 | 110 | 123 | 150 | 167 | 200 | 266 | 332 | | |
| blended lamps | | | | | | | | | | | | | |
| Fluoresced [A] | 55 | 95 | 100 | 125 | 145 | 207 | 237 | 263 | 300 | 375 | 525 | | |
| lamps, conventional | | | | | | | | | | | | | |
| - reactor | | | | | | | | | | | | | |
| - starter | | | | | | | | | | | | | |
| - connection | | | | | | | | | | | | | |
| Fluoresced [A] | 59 | 71 | 95 | 100 | 138 | 186 | 213 | 236 | 270 | 338 | 473 | | |
| lamps, conventional | | | | | | | | | | | | | |
| - reactor | | | | | | | | | | | | | |
| - starter | | | | | | | | | | | | | |
| - connection | | | | | | | | | | | | | |
| Fluoresced [A] | 55.5 | 56 | 66.5 | 80.5 | 105 | 130 | 158 | 175 | 210 | 280 | 350 | | |
| lamps, duo circuit (series compensated) | | | | | | | | | | | | | |
| electrical [A] | 36 | 55 | 60 | 80 | 95 | 138 | 158 | 175 | 200 | 250 | 350 | | |
| upstream devices and LED lamps | | | | | | | | | | | | | |
| High-le [A] | 36 | 55 | 60 | 80 | 95 | 138 | 158 | 175 | 200 | 250 | 350 | | |
| pressure mercury-arc lamps | | | | | | | | | | | | | |
| Meta-le [A] | 36 | 55 | 60 | 80 | 95 | 138 | 158 | 175 | 200 | 250 | 350 | | |
| halide lamps | | | | | | | | | | | | | |
| Low-le [A] | 25 | 35 | 40 | 50 | 70 | 100 | 11 | 123 | 140 | 175 | 245 | | |
| pressure sodium lamps | | | | | | | | | | | | | |

In compensated lamps, the sum of the capacitances must not exceed the contactors' max. permissible capacitor load (Cmax)!
The values in the table are for each contact in the contactors.

Technical data

General

| | | | |
|---------------------------------|--------------|-------------------|--|
| Standards | | | IEC/EN 60947, VDE 0660, UL, CSA |
| Lifespan, mechanical | | | |
| AC operated | Operations | x 10 ⁶ | 1 |
| Operating frequency, mechanical | | | |
| AC operated | Operations/h | | 60 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | | |
| Open | | °C | -25 - +60 |

| | | |
|---|----|--|
| Enclosed | °C | - 25 - 40 |
| Storage | °C | - 40 - 80 |
| Mounting position | |  |
| Mechanical shock resistance (IEC/EN 60068-2-27) | | |
| Half-sinusoidal shock, 10 ms | | |
| Mechanical shock resistance | g | 6.9 |
| Degree of Protection | | IP00 |
| Altitude | m | Max. 2000 |
| Weight | | |
| AC operated | kg | 0.42 |

Main conducting paths

| | | | |
|---------------------------------------|---------------|------|-------|
| Rated impulse withstand voltage | U_{imp} | V AC | 8000 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated insulation voltage | U_i | V AC | 690 |
| Rated operational voltage | U_e | V AC | 690 |
| Making capacity | | A | 238 |
| Breaking capacity | 380 ... 400 V | A | 170 |
| Lifespan, electrical | Operations | | 10000 |
| Short-circuit protection maximum fuse | | | |
| 400 V | gG/gL 500 V | A | 63 |

AC

| | | | |
|---|----------------|----|-----|
| AC-1 | | | |
| Rated operational current | | | |
| Conventional free air thermal current, 3 pole, 50 - 60 Hz | | | |
| Open | | | |
| at 40 °C | $I_{th} = I_e$ | A | 27 |
| at 60 °C | $I_{th} = I_e$ | A | 24 |
| AC-5a operation | | | |
| 220 V 230 V | I_e | A | 12 |
| 380 V 400 V | I_e | A | 12 |
| AC-5b operation | | | |
| 220 V 230 V | I_e | A | 14 |
| 380 V 400 V | I_e | A | 14 |
| 380 V 400 V | I_e | A | 14 |
| Electric lamps | | | |
| Filament bulbs | | A | 14 |
| Mercury blended lamps | | A | 12 |
| Fluorescent lamp load | | | |
| Conventional reactor starter circuit | | A | 20 |
| Duo circuit | | A | 20 |
| Electronic upstream devices | | A | 12 |
| High-pressure mercury vapour lamps | | A | 12 |
| Metal-halide lamps | | A | 12 |
| High-pressure sodium lamps | | A | 12 |
| Low-pressure sodium lamps | | A | 7.5 |
| Maximum permissible compensation capacitance | | µF | 470 |

Additional technical data

| | | | |
|--------------------|-----|--|-----|
| like the contactor | DIL | | M17 |
|--------------------|-----|--|-----|

Rating data for approved types

| | | | |
|--------------------|--|---|----|
| Switching capacity | | | |
| General use | | A | 24 |

| Short Circuit Current Rating | | SCCR | |
|------------------------------------|----|------|------------|
| Basic Rating | | | |
| SCCR | kA | | 5 |
| max. Fuse | A | | 125 |
| max. CB | A | | 125 |
| 480 V High Fault | | | |
| SCCR (fuse) | kA | | 100 |
| max. Fuse | A | | 70 Class J |
| SCCR (CB) | kA | | 22 |
| max. CB | A | | 32 |
| 600 V High Fault | | | |
| SCCR (fuse) | kA | | 100 |
| max. Fuse | A | | 70 Class J |
| SCCR (CB) | kA | | 22 |
| max. CB | A | | 32 |
| Special Purpose Ratings | | | |
| Incandescent Lamps (Tungsten) | | | |
| 480V 60Hz 3phase, 277V 60Hz 1phase | A | | 24 |
| 600V 60Hz 3phase, 347V 60Hz 1phase | A | | 24 |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|------------|----|--|
| Rated operational current for specified heat dissipation | I_n | A | 14 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0.4 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 1.2 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 2.1 |
| Heat dissipation capacity | P_{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 60 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | | Meets the product standard's requirements. |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects | | | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | | Meets the product standard's requirements. |
| 10.2.5 Lifting | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | | | Meets the product standard's requirements. |
| 10.3 Degree of protection of ASSEMBLIES | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | | | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | | | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | | | Is the panel builder's responsibility. |
| 10.9 Insulation properties | | | |
| 10.9.2 Power-frequency electric strength | | | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | | | Is the panel builder's responsibility. |
| 10.9.4 Testing of enclosures made of insulating material | | | Is the panel builder's responsibility. |
| 10.10 Temperature rise | | | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 Electromagnetic compatibility | | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |

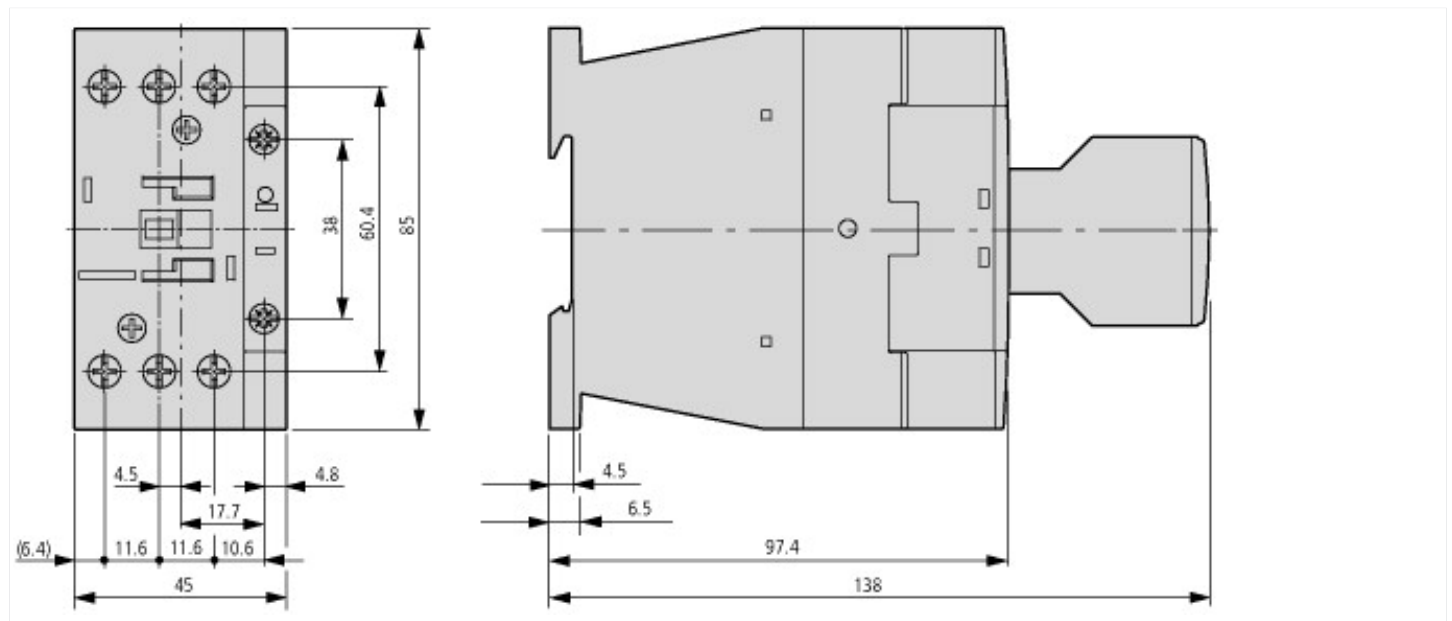
Technical data ETIM 7.0

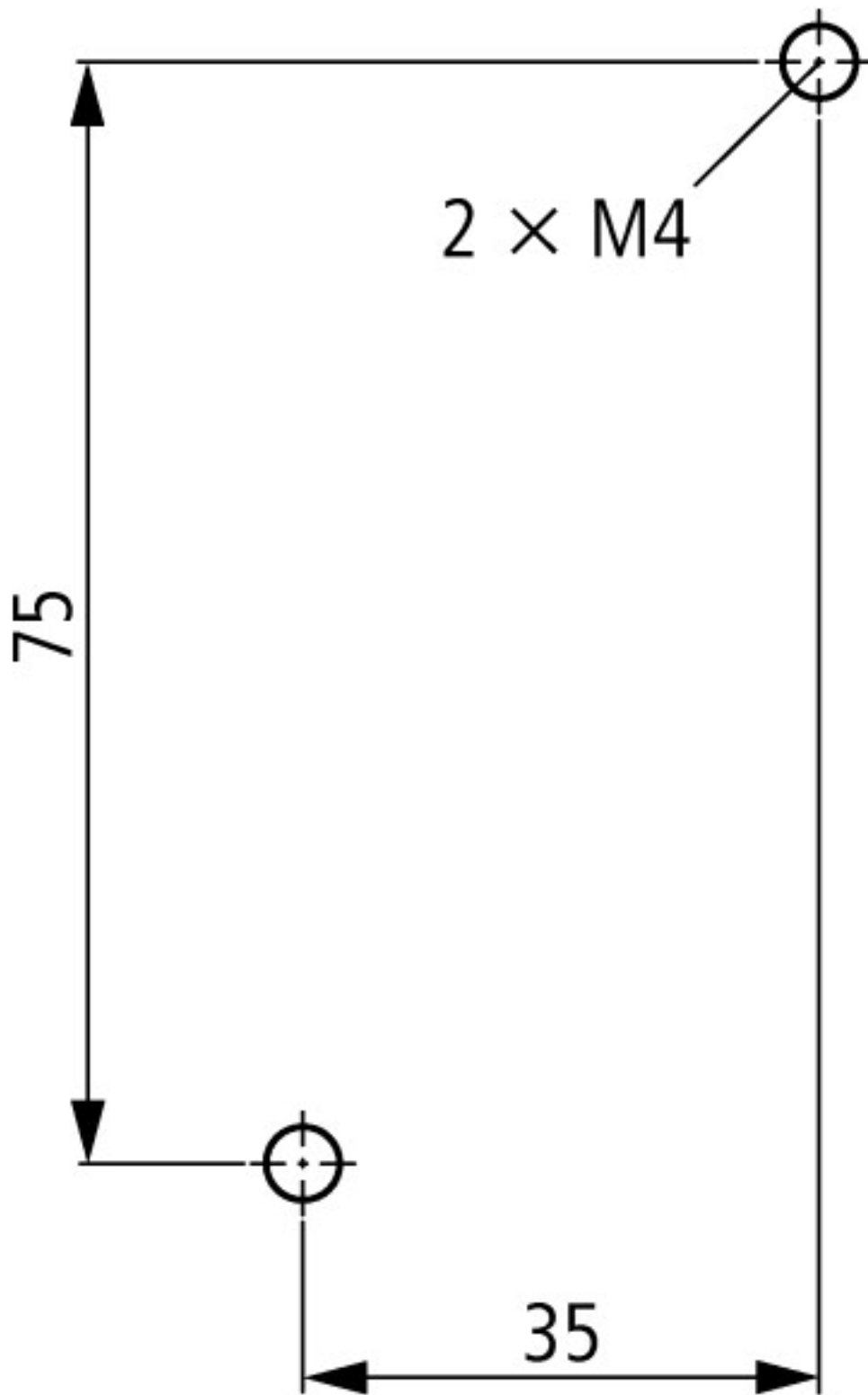
| | | |
|---|----|------------------|
| Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066) | | |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015]) | | |
| Rated control supply voltage U_s at AC 50HZ | V | 24 - 24 |
| Rated control supply voltage U_s at AC 60HZ | V | 0 - 0 |
| Rated control supply voltage U_s at DC | V | 0 - 0 |
| Voltage type for actuating | | AC |
| Rated operation current I_e at AC-1, 400 V | A | 12 |
| Rated operation current I_e at AC-3, 400 V | A | 0 |
| Rated operation power at AC-3, 400 V | kW | 0 |
| Rated operation current I_e at AC-4, 400 V | A | 0 |
| Rated operation power at AC-4, 400 V | kW | 0 |
| Rated operation power NEMA | kW | 0 |
| Modular version | | No |
| Number of auxiliary contacts as normally open contact | | 0 |
| Number of auxiliary contacts as normally closed contact | | 0 |
| Type of electrical connection of main circuit | | Screw connection |
| Number of normally closed contacts as main contact | | 0 |
| Number of main contacts as normally open contact | | 3 |

Approvals

| | | |
|--------------------------------------|--|--|
| Product Standards | | IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking |
| UL File No. | | E29096 |
| UL Category Control No. | | NLDX |
| CSA File No. | | 012528 |
| CSA Class No. | | 3211-04 |
| North America Certification | | UL listed, CSA certified |
| Specially designed for North America | | No |

Dimensions





distance at side to earthed parts: 6 mm

DILL12...20

Assets (links)

Declaration of CE Conformity

00002883

Instruction Leaflets

IL03407047Z2018_05