

Amplifier module, timer module, contactor monitoring device

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Moeller HPL0211-2007/2008

ETS-VS3, DILM, CMD

|   |                   |           |              | ETS4-VS3   | DILM32-XTE | CMD        |
|---|-------------------|-----------|--------------|------------|------------|------------|
| <b>Magnet systems</b>                               |                   |           |              |            |            |            |
| Voltage tolerance                                   |                   |           |              |            |            |            |
| Pick-up voltage                                     |                   |           |              |            |            |            |
| AC operated   |                   | Pick-up   | $\times U_c$ | –          | 0.85 – 1.1 | 0.85 – 1.1 |
| DC operated <sup>1)</sup>                           |                   | Pick-up   | $\times U_c$ | 0.85 – 1.2 | 0.7 – 1.2  | 0.85 – 1.1 |
| Power consumption                                   |                   |           |              |            |            |            |
| AC operated   | Sealing           | VA        | –            | 2          | 4          |            |
| AC operated   | Sealing           | W         | –            | 1.8        | 4          |            |
| DC operated   | Pull-in = sealing | W         | 0.6          | –          | 4          |            |
| Duty factor   |                   |           | % DF         | 100        | 100        | 100        |
| Switching times at 100 % $U_c$ (approximate values) |                   |           |              |            |            |            |
| DC operated closing delay                           |                   |           | ms           | 7          |            |            |
| DC operated, opening delay                          |                   |           | ms           | 3          | –          | –          |
| Maximum operating frequency                         |                   |           |              |            |            |            |
| Max. operating frequency                            |                   |           | Ops/h        | –          | 3600       | –          |
| 6 A/250 V   |                   |           | Ops./h       | –          | 360        | –          |
| Minimum contact closing time                        |                   |           |              |            |            |            |
| On-delayed  |                   |           | ms           | –          | < 50       | –          |
| Off-delayed   |                   |           | ms           | –          | < 200      | –          |
| Repetition accuracy (with constant parameters)      |                   | Deviation | %            | –          | < 5        | –          |
| Recovery time (after 100% time delay)               |                   |           | ms           | –          | 70         | –          |
| contact changeover time                             |                   |           |              |            |            |            |
| DILM32-XTEE11/DILM32-XTED11                         |                   | $t_u$     | ms           | –          | 10         | –          |
| DILM32-XTEY20                                       |                   | $t_u$     | ms           | –          | 50         | –          |
| CMD   |                   | $t_u$     | ms           | –          | –          | < 100      |

Notes

<sup>1)</sup> For rated operational current: Making and breaking conditions to DC-13, L/R constant as stated

Contactor

