



Your Selection : 0054185 FXQJ EMC 1 kV 4X25/16

Intensity (A) : 63.0

Voltage (V) : 400

Length (m) : 70.0

Operating activity (%) : 35.0

Average lifetime (years) : 30

kWh price (SEK) : 1.2

Discount (%) : 70




Voltage Drop (%) : 2.0

Power Factor (cos φ) : 0.85

tz = Temperature Max. (° C) : 90

ta = Temperature laying (° C) : 30

Our alternatives :

| | |
|--|---|
| Cable type | FXQJ EMC 1 kV 4X35/16 |
| Savings per year | 588 kWh 705 (SEK) 66 kg equivalent CO2 |
| Payback | |
| Profit | 24514 (SEK) |
| Payback time | 6.1 Years |
|  Reduce carbon footprint 1 flights Stockholm - Paris * | |
|  Be energy efficient | √ |
|  Protect life in case of fire thanks to low fire hazard cables | √ |

BASIC AUTHORITY

* Based on specified length for 1 person.(651km)

 Be sustainable with [FXQJ EMC 1 kV 4X35/16](#)


More information on Nexans commitment as regards sustainable development

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| | Your Selection | Our alternatives : |
|---|---------------------|----------------------|
| Reference | 0054185 | 0054195 |
| Name | FXQJ EMC 1kV | FXQJ EMC 1kV |
| Cross section | 25 | 35 |
| Nb active conductors | 3 | 3 |
| Maximum Permissible Current (A) | 127 | 158 |
| Energy Losses / year | | |
| Energy loss (kWh) | 2024 | 1436 |
| CO2 emission associated to Energy loss¹ | 226 | 161 |
| Costs | | |
| Cable cost² | 11670 (SEK) | 15951 (SEK) |
| Loss cost / year³ | 2,429 (SEK) | 1,723 (SEK) |
| Savings per year⁴ | | |
| In kWh | | 588 |
| In SEK | | 705 |
| kg equivalent CO2 | | 66 kg equivalent CO2 |
| Payback | | |
| Profit⁵ | | 24,514 (SEK) |
| Payback time⁶ | | 6.1 Years |
|  Reduce carbon footprint | | ✓ |
| 1 flights Stockholm - Paris * | | |
|  Be energy efficient | | ✓ |
|  Protect life in case of fire | | ✓ |
| thanks to low fire hazard cables | | |

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DETAILED AUTHORITY

Comments

Energy Losses

¹ CO2 emissions associated to the energy losses: the value used to calculate the equivalent CO2 of the energy losses is 0.11186 Kg eq CO2 / kWh

Costs

² Correspond to the price of the cable for the specified length

³ Energy losses cost per year is based on the electricity price

Savings per year

⁴ Savings made per year (loss difference) in euro, kWh and kg equivalent CO2

Payback

⁵ Estimate profit made if savings had been invested (once breakeven reached) for the rest of the lifetime period (at an interest rate of 3.0 %)

⁶ Necessary time to reach breakeven (to offset the larger amount of money invested at the beginning)

DETAILED AUTHORITY



More information on Nexans commitment as regards sustainable development

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