



INSTRUCTIONS

MDP201A21A through MDP201A24A

NEW TIME OVERCURRENT CURVES TIME DIAL IS MULTIPLIED BY 4

INTRODUCTION

These instructions, GEK-105500 together with GEK-100604, constitute the complete instructions for the above relays.

DESCRIPTION

This relay has the following differences from the standard MDP relay described in GEK-100604.

1. Each time overcurrent curve is multiplied by four (4). This change shifts the curves up in time. The new curves are shown in the following drawings:

Figure 1: MDP 4X Inverse time curve, GES-9916

Figure 2: MDP 4X Very Inverse curve, GES-9917

Figure 3: MDP 4X Extremely Inverse curve, GES-9918

Figure 4: MDP 4X Long Time Inverse curve, GES-9919

2. The time calculations are now made by multiplying the time dial by four; all other parts of the equations in instruction book GEK-100604 are the same. For example, the nameplate time dial is set to 0.5, therefore the true setting is 2. Placing the true dial setting in the equation for the Inverse curve results in the following equation:

$$T = \left(\frac{0.0059}{P^{0.001} - 1} + 0.419 \right) * 2 + 0.018$$

For 1.1 to 4 times the pickup TOC, if the pickup $P=2$, then the operating time would be 2.024 sec.

For reference to this equation and its use, see the **INVERSE TIME UNIT** section in GEK-100604.

These instructions do not purport to cover all details or variations in equipment nor provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the General Electric Company.

To the extent required the products described herein meet applicable ANSI, IEEE and NEMA standards; but no such assurance is given with respect to local codes and ordinances because they vary greatly.

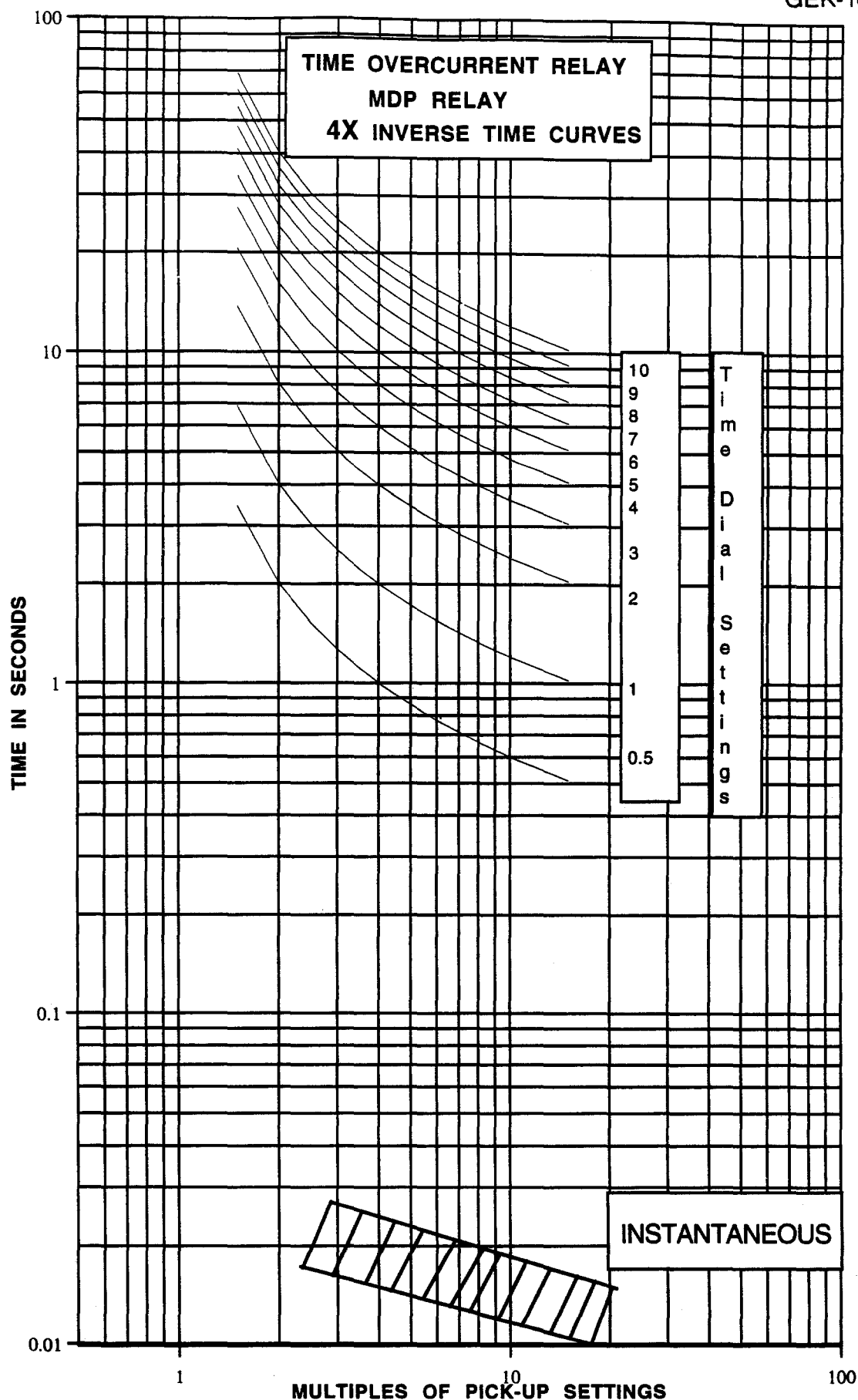


Figure 1 (0286A5625) MDP 4X Inverse Time Curve

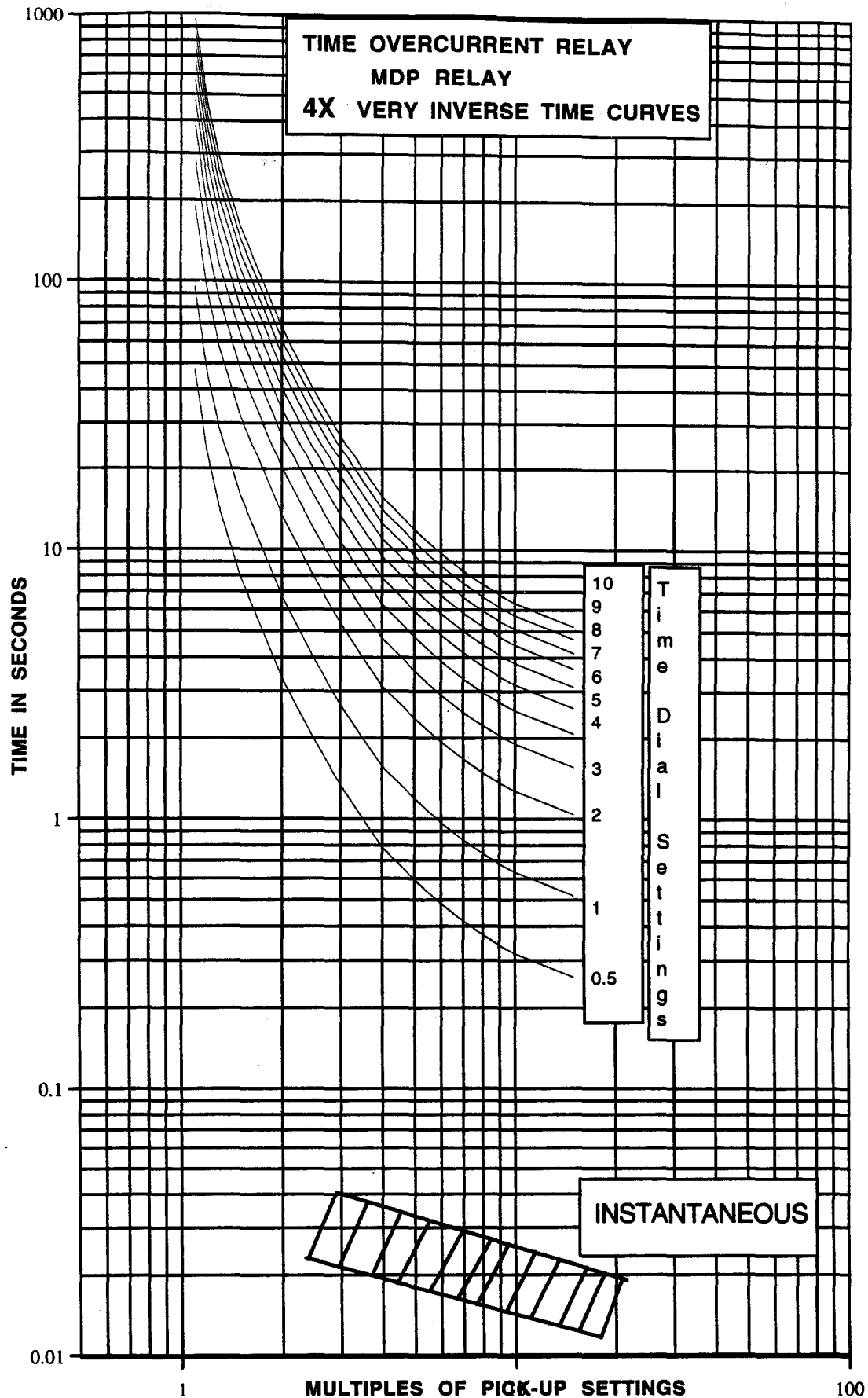


Figure 2 (0286A5626) MDP 4X Very Inverse Time Curve

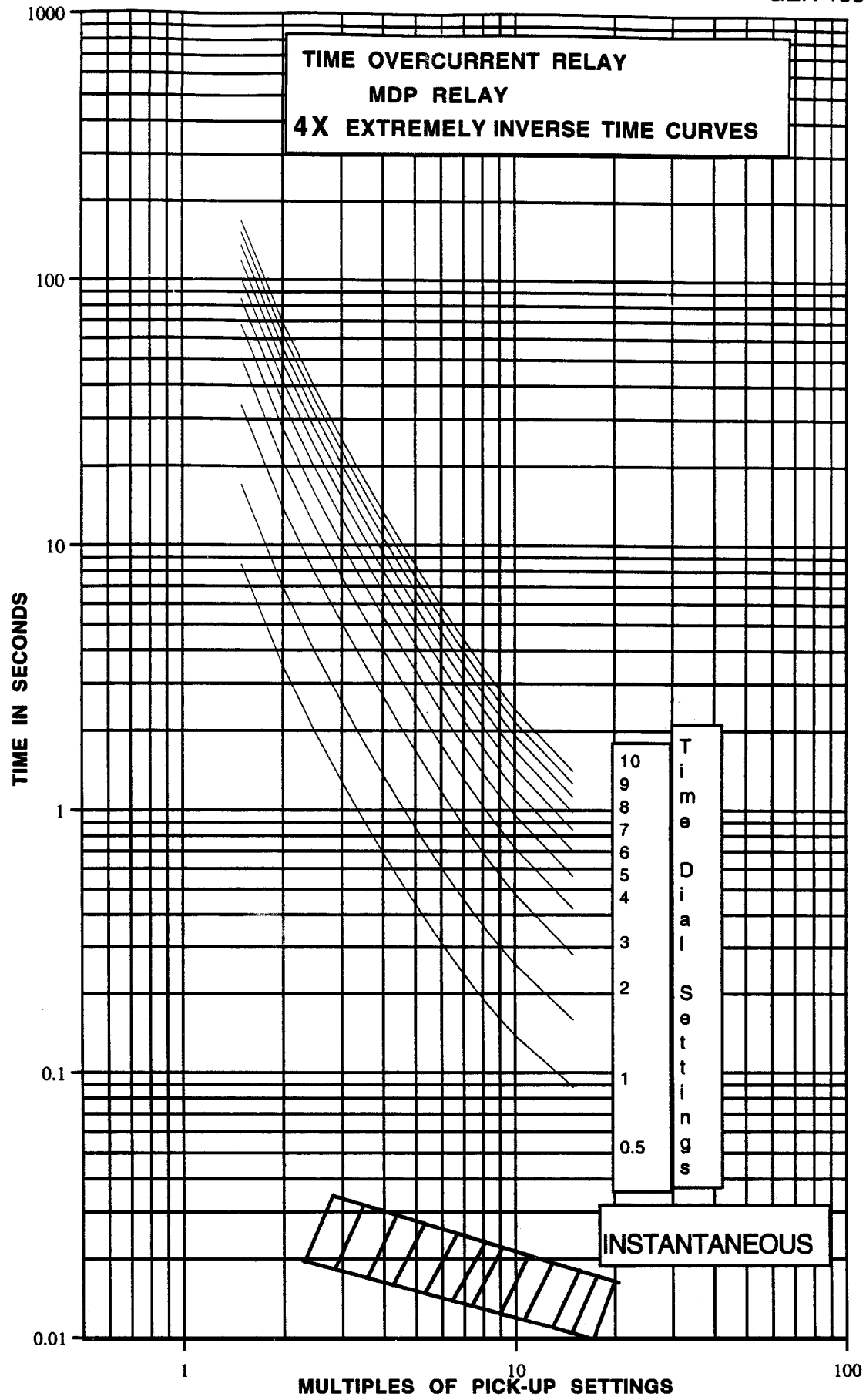


Figure 3 (0286A5627) MDP 4X Extremely Inverse Time Curve

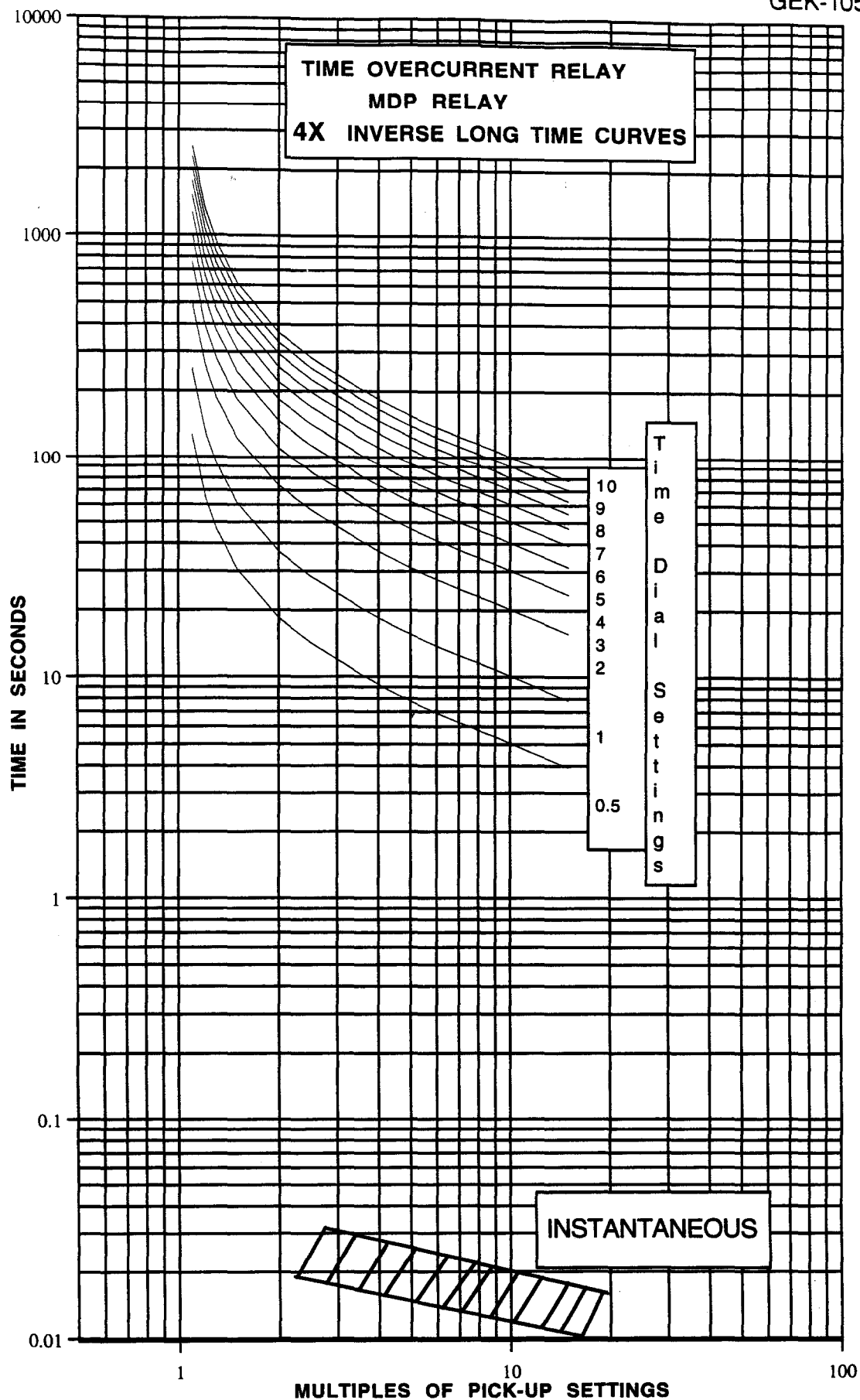


Figure 41 (0286A5628) MDP 4X Inverse Time Curve

